

chain nodes :

4 8 12 13 20 21

ring/chain nodes :

1 2 3 5 6 7 9 10 11 14 15 23 24

chain bonds :

2-13 3-4 4-5 4-20 7-8 8-9 8-21 10-12

ring/chain bonds :

1-2 2-3 3-24 5-6 5-15 6-7 7-14 9-10 9-23 10-11

exact/norm bonds :

1-2 2-3 2-13 3-4 3-24 4-5 4-20 5-6 5-15 6-7 7-8 7-14 8-9 8-21 9-10 9-23
10-11 10-12

G1:O,S

G2:H,Cb,Cy,Hy,Ak

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 20:CLASS 21:CLASS 23:CLASS 24:CLASS

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=> d que stat

L1 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

L3 75 SEA FILE=REGISTRY SSS FUL L1

L4 5 SEA L3

L5 5 DUP REM L4 (0 DUPLICATES REMOVED)

=> d his full

(FILE 'HOME' ENTERED AT 22:12:00 ON 20 OCT 2005)

FILE 'REGISTRY' ENTERED AT 22:12:12 ON 20 OCT 2005

L1 STRUCTURE UPLOADED

D L1

L2 4 SEA SSS SAM L1

D SCAN L2 1

L3 75 SEA SSS FUL L1

D SCAN L3

FILE 'STNGUIDE' ENTERED AT 22:14:32 ON 20 OCT 2005

D QUE STAT

FILE 'MEDLINE, HCAPLUS, BIOSIS, EMBASE' ENTERED AT 22:17:02 ON 20 OCT 2005

L4 5 SEA L3

L5 5 DUP REM L4 (0 DUPLICATES REMOVED)

D L5 ABS CBIB HITSTR 1-5

FILE 'STNGUIDE' ENTERED AT 22:17:53 ON 20 OCT 2005

D QUE STAT

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 OCT 2005 HIGHEST RN 865652-03-5

DICTIONARY FILE UPDATES: 19 OCT 2005 HIGHEST RN 865652-03-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*

* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *

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* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

FILE STNGUIDE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Oct 14, 2005 (20051014/UP).

FILE MEDLINE

FILE LAST UPDATED: 20 OCT 2005 (20051020/UP). FILE COVERS 1950 TO DATE.

On December 19, 2004, the 2005 MeSH terms were loaded.

The MEDLINE reload for 2005 is now available. For details enter HELP RLOAD at an arrow prompt (=>). See also:

<http://www.nlm.nih.gov/mesh/>

http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE HCAPLUS

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FILE COVERS 1907 - 20 Oct 2005 VOL 143 ISS 17

FILE LAST UPDATED: 19 Oct 2005 (20051019/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

10/758,589

FILE BIOSIS
FILE COVERS 1969 TO DATE.
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 19 October 2005 (20051019/ED)

FILE RELOADED: 19 October 2003.

FILE EMBASE
FILE COVERS 1974 TO 20 Oct 2005 (20051020/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

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FILE 'MEDLINE' ENTERED AT 22:17:02 ON 20 OCT 2005

FILE 'HCAPLUS' ENTERED AT 22:17:02 ON 20 OCT 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE 'EMBASE' ENTERED AT 22:17:02 ON 20 OCT 2005
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=> d his

(FILE 'HOME' ENTERED AT 22:12:00 ON 20 OCT 2005)

FILE 'REGISTRY' ENTERED AT 22:12:12 ON 20 OCT 2005
L1 STRUCTURE UPLOADED
L2 4 S L1 SSS SAM
L3 75 S L1 SSS FULL

FILE 'STNGUIDE' ENTERED AT 22:14:32 ON 20 OCT 2005

FILE 'MEDLINE, HCAPLUS, BIOSIS, EMBASE' ENTERED AT 22:17:02 ON 20 OCT 2005

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L4 5 L3

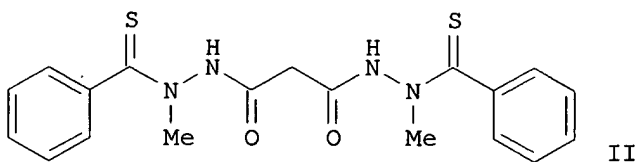
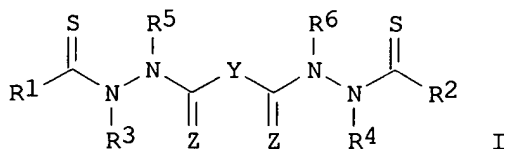
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PROCESSING COMPLETED FOR L4

L5 5 DUP REM L4 (0 DUPLICATES REMOVED)

=> d l5 abs cbib hitstr 1-5

L5 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
GI



AB One embodiment of the present invention is a method of treating a subject

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with a multi-drug resistant cancer. The method comprises administering to the subject an effective amount of a compound represented by formula I [wherein: Y is a covalent bond or (un)substituted straight chained hydrocarbyl group, or, Y, taken together with both >C=Z groups to which it is bonded, is (un)substituted aromatic group; R1-R4 are independently H, aliphatic group, substituted aliphatic group, or aryl group, etc.; R5 and R6 are independently H, aliphatic group, substituted aliphatic group, (un)substituted aryl group; Z is O or S]. For instance, malonyl dihydrazide derivative II (IC50 = 0.005 μ M, multi-drug cell line MES-SA/DX5) was prepared via amidation of malonic acid by PhC(:S)N(Me)NH2 with a yield of 80% (example 4).

2004:633518 Document Number 141:173877 A preparation of malonyl dihydrazide derivatives, useful for the treatment of multi-drug resistant cancer. Koya, Keizo; Sun, Lijun; Wu, Yaming; Korbut, Timoty; Zhou, Dan; Du, Zhenjian; Chen, Shoujun; Tatsuta, Noriaki; Liang, Guiqing; Ono, Mitsunori (Synta Pharmaceuticals Corp., USA). PCT Int. Appl. WO 2004064826 A1 20040805, 113 pp. DESIGNATED STATES: W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GH, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ. (English). CODEN: PIXXD2. APPLICATION: WO 2004-US1089 20040115. PRIORITY: US 2003-PV440406 20030115.

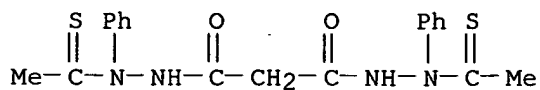
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 488833-12-1P 488833-13-2P 488833-14-3P
 488833-21-2P 488833-22-3P 488833-26-7P
 488862-42-6P 488862-80-2P 489475-19-6P
 489475-24-3P 489475-25-4P 489475-26-5P
 489475-28-7P 489475-29-8P 489475-30-1P
 733001-67-7P 733001-68-8P 733001-73-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of malonyl dihydrazide derivs. useful for treating multi-drug resistant cancer)

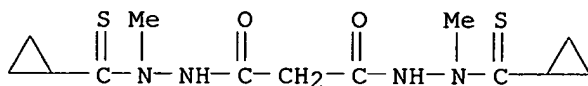
RN 488831-49-8 HCAPLUS

CN Propanedioic acid, bis[2-phenyl-2-(1-thioxoethyl)hydrazide] (9CI) (CA INDEX NAME)



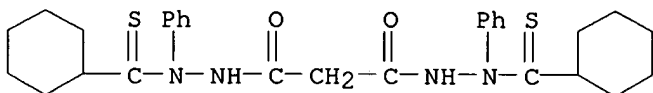
RN 488831-50-1 HCAPLUS

CN Propanedioic acid, bis[2-(cyclopropylthioxomethyl)-2-methylhydrazide] (9CI) (CA INDEX NAME)



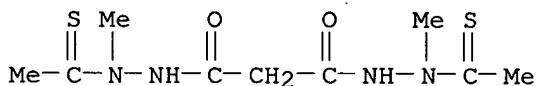
RN 488831-52-3 HCAPLUS

CN Propanedioic acid, bis[2-(cyclohexylthioxomethyl)-2-phenylhydrazide] (9CI) (CA INDEX NAME)



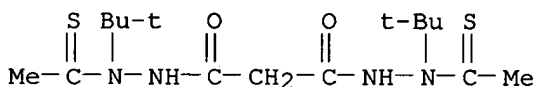
RN 488831-53-4 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-(1-thioxoethyl)hydrazide] (9CI) (CA INDEX NAME)



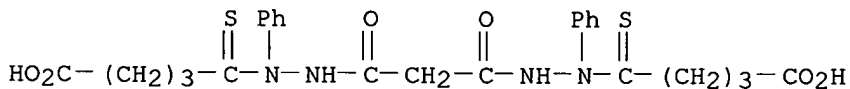
RN 488831-54-5 HCAPLUS

CN Propanedioic acid, bis[2-(1,1-dimethylethyl)-2-(1-thioxoethyl)hydrazide] (9CI) (CA INDEX NAME)



RN 488831-55-6 HCAPLUS

CN Propanedioic acid, bis[2-(4-carboxy-1-thioxobutyl)-2-phenylhydrazide] (9CI) (CA INDEX NAME)

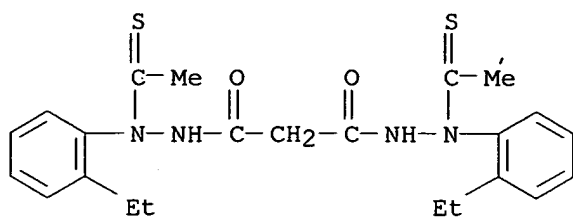


RN 488831-56-7 HCAPLUS

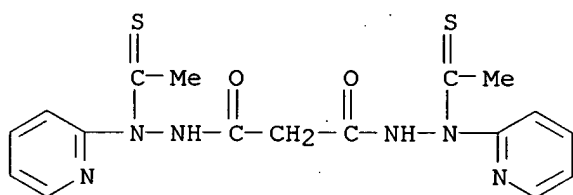
CN Propanedioic acid, bis[2-(2-ethylphenyl)-2-(1-thioxoethyl)hydrazide] (9CI)

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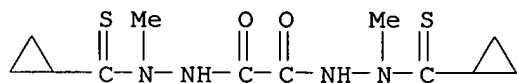
(CA INDEX NAME)



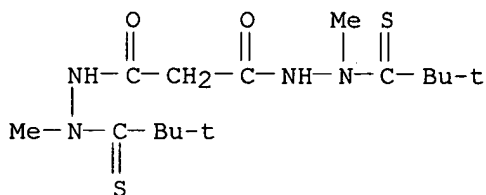
RN 488831-57-8 HCAPLUS

CN Propanedioic acid, bis[2-(2-pyridinyl)-2-(1-thioxoethyl)hydrazide] (9CI)
(CA INDEX NAME)

RN 488831-59-0 HCAPLUS

CN Ethanedioic acid, bis[2-(cyclopropylthioxomethyl)-2-methylhydrazide] (9CI)
(CA INDEX NAME)

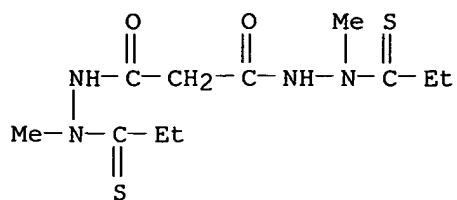
RN 488831-60-3 HCAPLUS

CN Propanedioic acid, bis[2-(2,2-dimethyl-1-thioxopropyl)-2-methylhydrazide] (9CI)
(CA INDEX NAME)

RN 488831-61-4 HCAPLUS

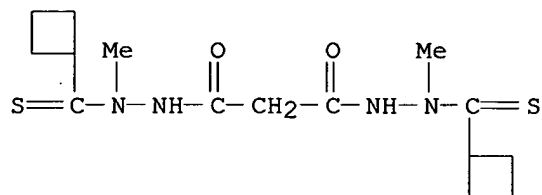
CN Propanedioic acid, bis[2-methyl-2-(1-thioxopropyl)hydrazide] (9CI) (CA INDEX NAME)

10/758,589



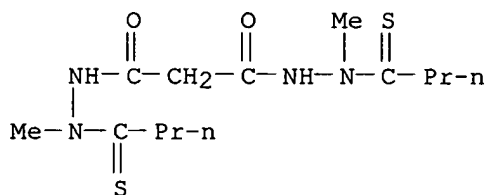
RN 488831-63-6 HCAPLUS

CN Propanedioic acid, bis[2-(cyclobutylthioxomethyl)-2-methylhydrazide] (9CI)
(CA INDEX NAME)



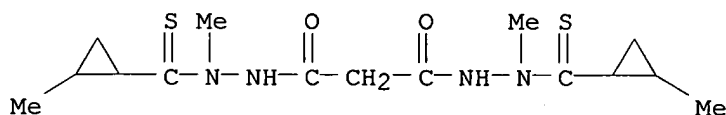
RN 488831-65-8 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-(1-thioxobutyl)hydrazide] (9CI) (CA
INDEX NAME)



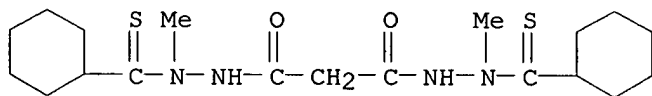
RN 488831-66-9 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(2-methylcyclopropyl)thioxomethyl]hydra-
zide] (9CI) (CA INDEX NAME)



RN 488831-67-0 HCAPLUS

CN Propanedioic acid, bis[2-(cyclohexylthioxomethyl)-2-methylhydrazide] (9CI)
(CA INDEX NAME)

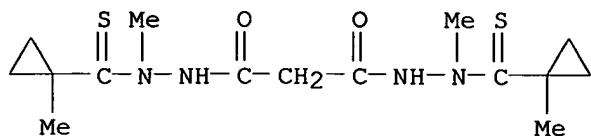


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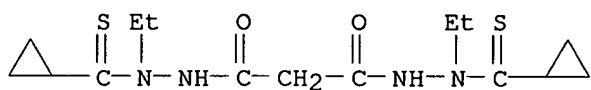
RN 488831-68-1 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(1-methylcyclopropyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)



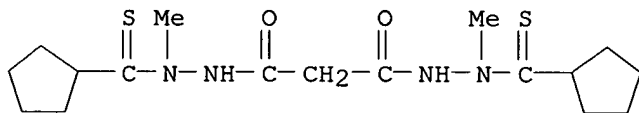
RN 488831-69-2 HCAPLUS

CN Propanedioic acid, bis[2-(cyclopropylthioxomethyl)-2-ethylhydrazide] (9CI) (CA INDEX NAME)



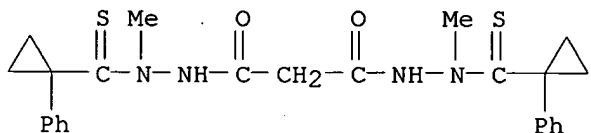
RN 488831-71-6 HCAPLUS

CN Propanedioic acid, bis[2-(cyclopentylthioxomethyl)-2-methylhydrazide] (9CI) (CA INDEX NAME)



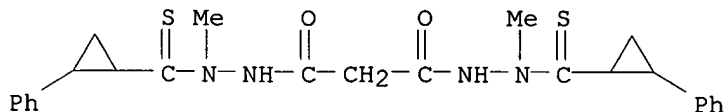
RN 488831-72-7 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(1-phenylcyclopropyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)



RN 488831-73-8 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(2-phenylcyclopropyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)

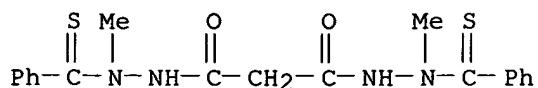


RN 488832-69-5 HCAPLUS

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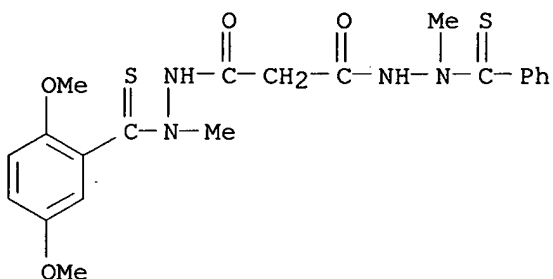
10/758,589

CN Propanedioic acid, bis[2-methyl-2-(phenylthioxomethyl)hydrazide] (9CI)
(CA INDEX NAME)



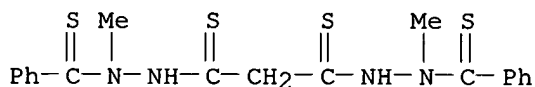
RN 488832-71-9 HCAPLUS

CN Propanedioic acid, 2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide
2-methyl-2-(phenylthioxomethyl)hydrazide (9CI) (CA INDEX NAME)



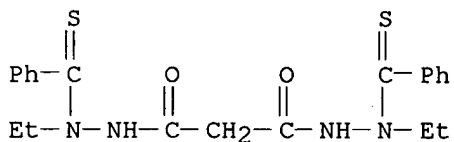
RN 488832-72-0 HCAPLUS

CN Propanebis(thioic) acid, bis[2-methyl-2-(phenylthioxomethyl)hydrazide]
(9CI) (CA INDEX NAME)



RN 488832-73-1 HCAPLUS

CN Propanedioic acid, bis[2-ethyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA
INDEX NAME)

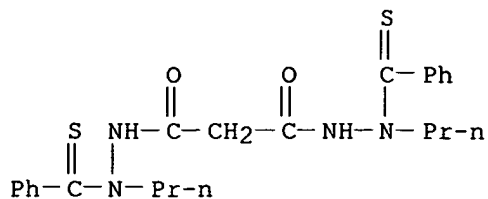


RN 488832-74-2 HCAPLUS

CN Propanedioic acid, bis[2-(phenylthioxomethyl)-2-propylhydrazide] (9CI)
(CA INDEX NAME)

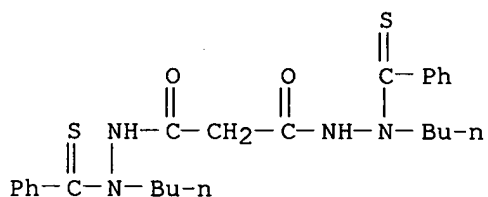
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10/758,589



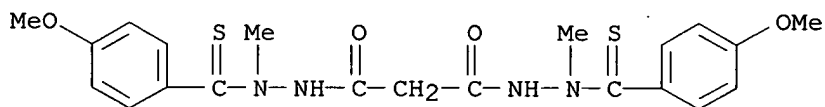
RN 488832-75-3 HCAPLUS

CN Propanedioic acid, bis[2-butyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA INDEX NAME)



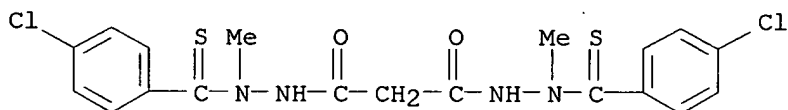
RN 488832-83-3 HCAPLUS

CN Propanedioic acid, bis[2-[(4-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



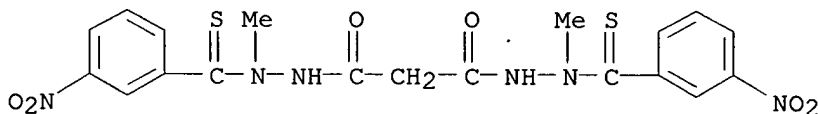
RN 488832-84-4 HCAPLUS

CN Propanedioic acid, bis[2-[(4-chlorophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488832-86-6 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(3-nitrophenyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)

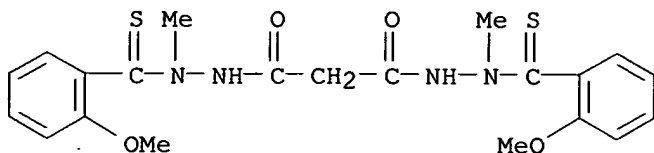


RN 488832-87-7 HCAPLUS

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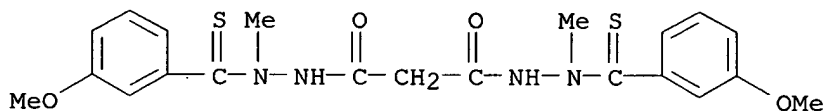
10/758,589

CN Propanedioic acid, bis[2-[(2-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



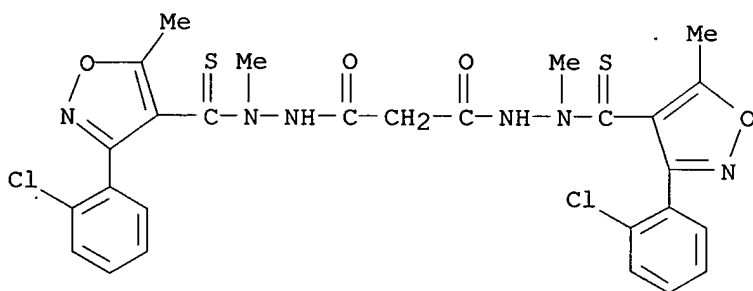
RN 488832-88-8 HCAPLUS

CN Propanedioic acid, bis[2-[(3-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



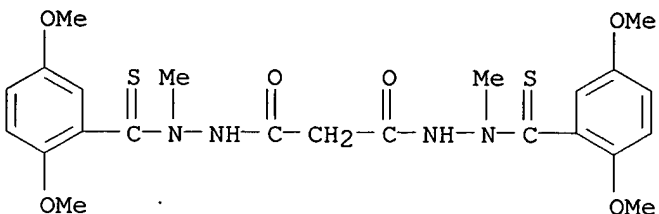
RN 488832-90-2 HCAPLUS

CN Propanedioic acid, bis[2-[[3-(2-chlorophenyl)-5-methyl-4-isoxazolyl]thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488832-91-3 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

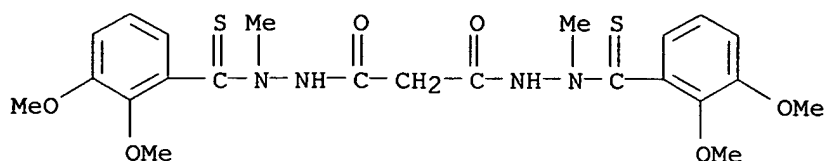


RN 488832-92-4 HCAPLUS

CN Propanedioic acid, bis[2-[(2,3-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

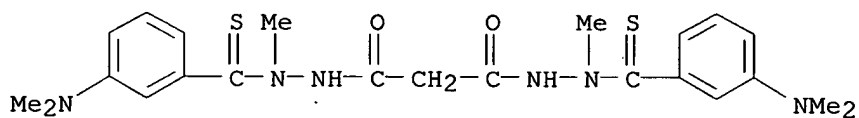
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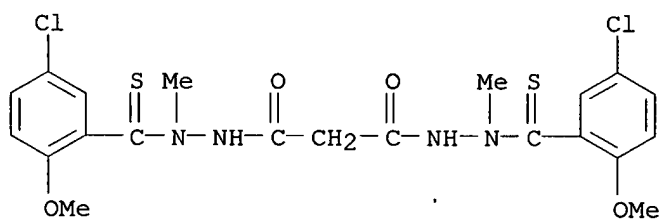
RN 488832-94-6 HCAPLUS

CN Propanedioic acid, bis[2-[(3-(dimethylamino)phenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



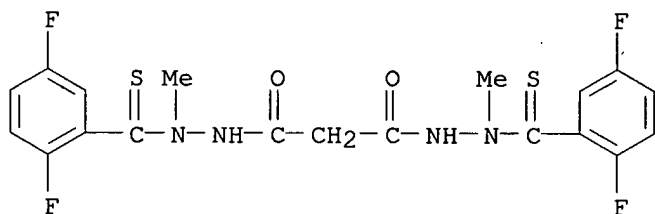
RN 488832-95-7 HCAPLUS

CN Propanedioic acid, bis[2-[(5-chloro-2-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488832-97-9 HCAPLUS

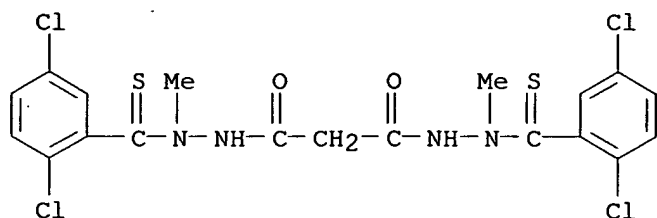
CN Propanedioic acid, bis[2-[(2,5-difluorophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488832-99-1 HCAPLUS

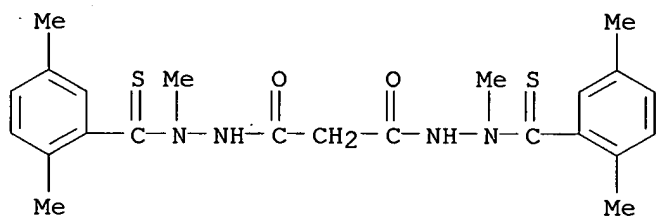
CN Propanedioic acid, bis[2-[(2,5-dichlorophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

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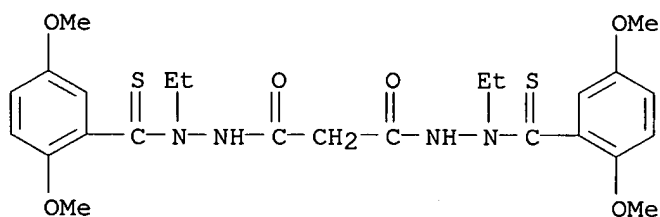
RN 488833-02-9 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-dimethylphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



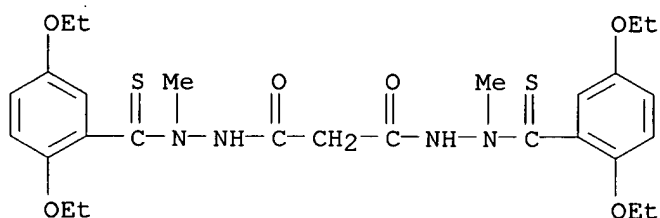
RN 488833-04-1 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-ethylhydrazide] (9CI) (CA INDEX NAME)



RN 488833-06-3 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-diethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



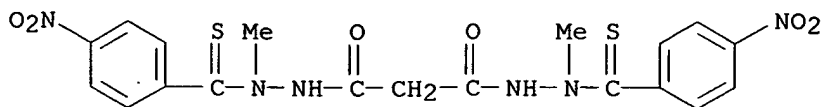
RN 488833-08-5 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(4-nitrophenyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)

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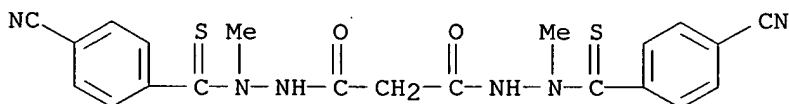
10/758,589

(9CI) (CA INDEX NAME)



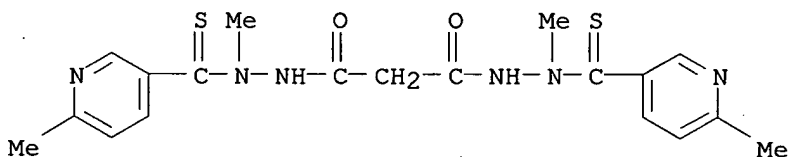
RN 488833-09-6 HCAPLUS

CN Propanedioic acid, bis[2-[(4-cyanophenyl)thioxomethyl]-2-methylhydrazide]
(9CI) (CA INDEX NAME)



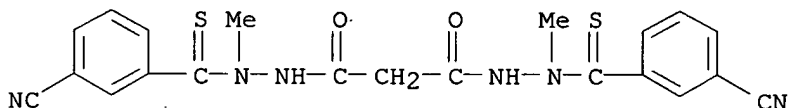
RN 488833-10-9 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(6-methyl-3-pyridinyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)



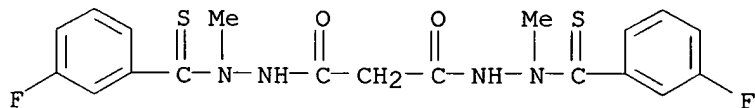
RN 488833-11-0 HCAPLUS

CN Propanedioic acid, bis[2-[(3-cyanophenyl)thioxomethyl]-2-methylhydrazide]
(9CI) (CA INDEX NAME)



RN 488833-12-1 HCAPLUS

CN Propanedioic acid, bis[2-[(3-fluorophenyl)thioxomethyl]-2-methylhydrazide]
(9CI) (CA INDEX NAME)

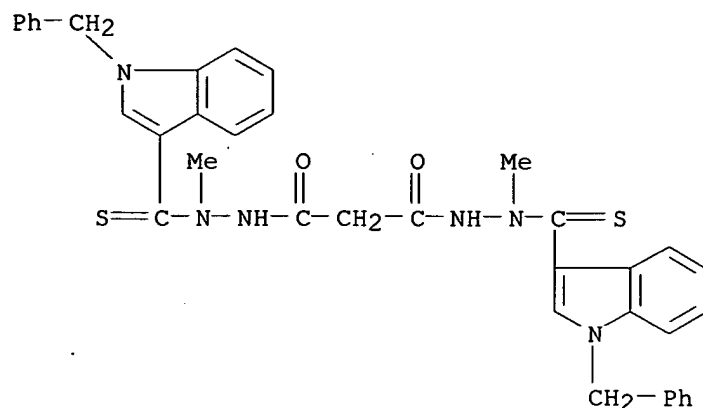


RN 488833-13-2 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[[1-(phenylmethyl)-1H-indol-3-

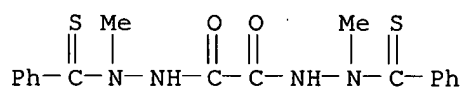
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yl]thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)



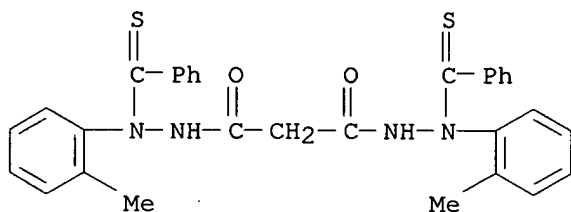
RN 488833-14-3 HCAPLUS

CN Ethanedioic acid, bis[2-methyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA INDEX NAME)



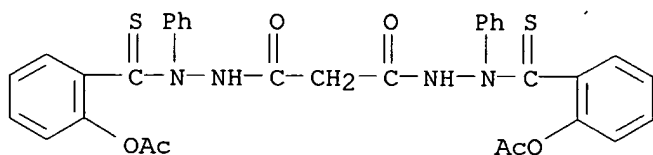
RN 488833-21-2 HCAPLUS

CN Propanedioic acid, bis[2-(2-methylphenyl)-2-(phenylthioxomethyl)hydrazide] (9CI) (CA INDEX NAME)



RN 488833-22-3 HCAPLUS

CN Propanedioic acid, bis[2-[[2-(acetyloxy)phenyl]thioxomethyl]-2-phenylhydrazide] (9CI) (CA INDEX NAME)



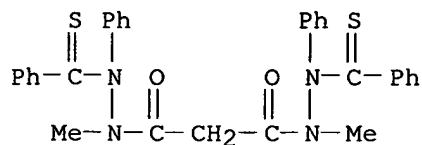
RN 488833-26-7 HCAPLUS

CN Propanedioic acid, bis[1-methyl-2-phenyl-2-(phenylthioxomethyl)hydrazide]

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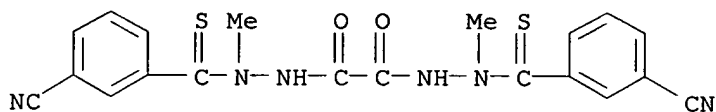
10/758,589

(9CI) (CA INDEX NAME)



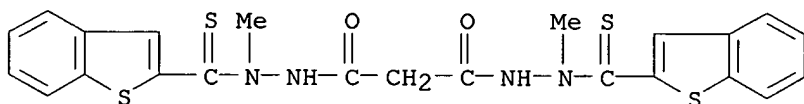
RN 488862-42-6 HCAPLUS

CN Ethanedioic acid, bis[2-[(3-cyanophenyl)thioxomethyl]-2-methylhydrazide]
(9CI) (CA INDEX NAME)



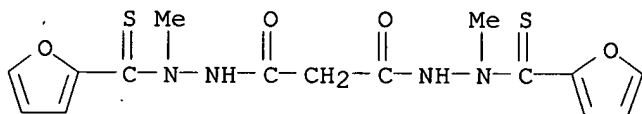
RN 488862-80-2 HCAPLUS

CN Propanedioic acid, bis[2-(benzo[b]thien-2-ylthioxomethyl)-2-methylhydrazide] (9CI) (CA INDEX NAME)



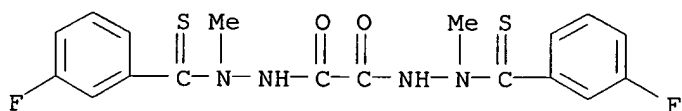
RN 489475-19-6 HCAPLUS

CN Propanedioic acid, bis[2-(2-furanylthioxomethyl)-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 489475-24-3 HCAPLUS

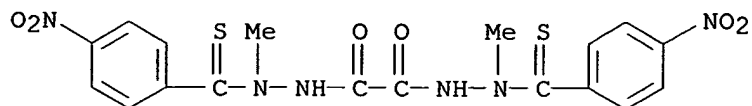
CN Ethanedioic acid, bis[2-[(3-fluorophenyl)thioxomethyl]-2-methylhydrazide]
(9CI) (CA INDEX NAME)



RN 489475-25-4 HCAPLUS

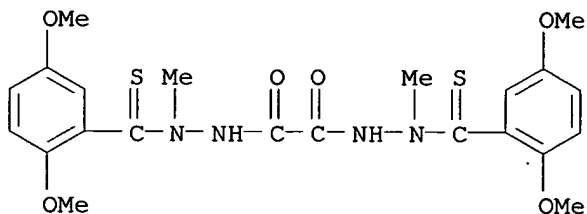
CN Ethanedioic acid, bis[2-methyl-2-[(4-nitrophenyl)thioxomethyl]hydrazide]
(9CI) (CA INDEX NAME)

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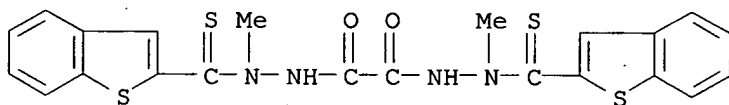
RN 489475-26-5 HCAPLUS

CN Ethanedioic acid, bis[2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



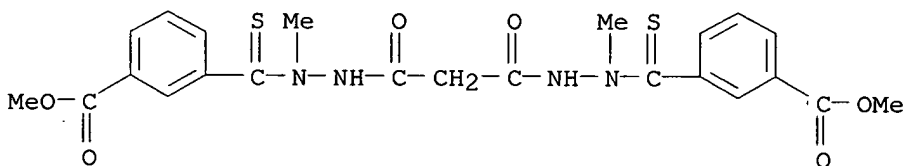
RN 489475-28-7 HCAPLUS

CN Ethanedioic acid, bis[2-(benzo[b]thien-2-ylthioxomethyl)-2-methylhydrazide] (9CI) (CA INDEX NAME)



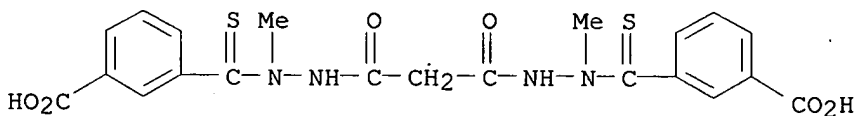
RN 489475-29-8 HCAPLUS

CN Propanedioic acid, bis[2-[[3-(methoxycarbonyl)phenyl]thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 489475-30-1 HCAPLUS

CN Propanedioic acid, bis[2-[(3-carboxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

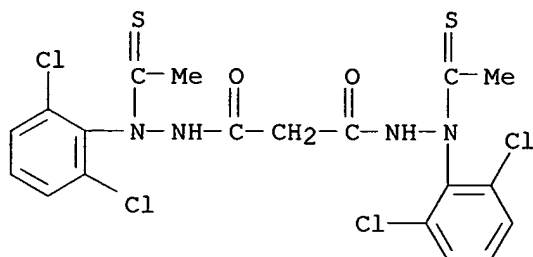


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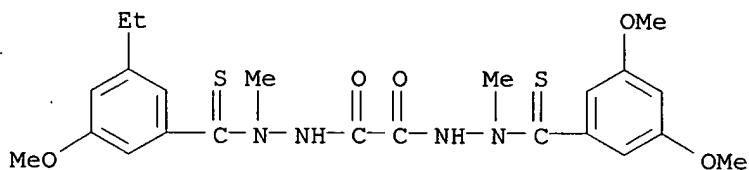
RN 733001-67-7 HCAPLUS

CN Propanedioic acid, bis[2-(2,6-dichlorophenyl)-2-(1-thioxoethyl)hydrazide]
(9CI) (CA INDEX NAME)



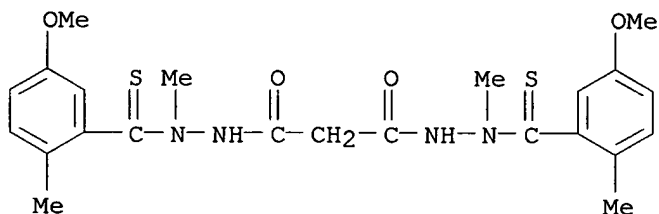
RN 733001-68-8 HCAPLUS

CN Ethanedioic acid, 2-[(3,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide
2-[(3-ethyl-5-methoxyphenyl)thioxomethyl]-2-methylhydrazide (9CI) (CA
INDEX NAME)



RN 733001-73-5 HCAPLUS

CN Propanedioic acid, bis[2-[(5-methoxy-2-methylphenyl)thioxomethyl]-2-
methylhydrazide] (9CI) (CA INDEX NAME)



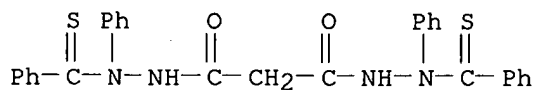
IT 488832-82-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant; preparation of malonyl dihydrazide derivs. useful for treating
multi-drug resistant cancer)

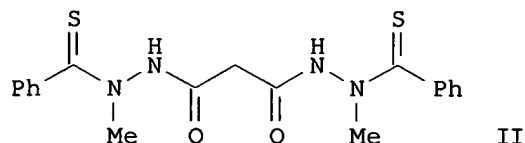
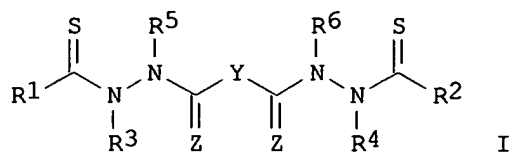
RN 488832-82-2 HCAPLUS

CN Propanedioic acid, bis[2-phenyl-2-(phenylthioxomethyl)hydrazide] (9CI)
(CA INDEX NAME)



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AB Title compds. I [Y = bond, phenylene, hydrocarbyl or taken together with both >C=Z groups is aromatic; R1-2 = (un)substituted aryl; R3-4 = H, alkyl, aryl; R5-6 = H, alkyl, aryl; Z = O, with provisions] and analogs are prepared For instance, thiobenzoic acid N-methylhydrazide (preparation given) was added to malonyl dichloride to give bis-hydrazide II. The combination of example compds. and paclitaxel administered to mice with tumors (MDA-435) resulted in greater tumor reduction than either active component given alone.

2003:58057 Document Number 138:122398 Preparation of bis(thiohydrazide) derivatives as taxol enhancer compounds. Koya, Keizo; Sun, Lijun; Chen, Shoujun; Tatsuta, Noriaki; Wu, Yaming; Ono, Mitsunori (SBR Pharmaceuticals Corp., USA). PCT Int. Appl. WO 2003006430 A1 20030123; 105 pp.

DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2.

APPLICATION: WO 2002-US21717 20020710. PRIORITY: US 2001-2001/PV30425U 20010710; US 2002-2002/PV361946 20020306.

IT 488832-69-5P 488832-71-9P 488832-72-0P
488832-73-1P 488832-74-2P 488832-75-3P
488832-82-2P 488832-83-3P 488832-84-4P
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488862-80-2P 489475-19-6P 489475-20-9P
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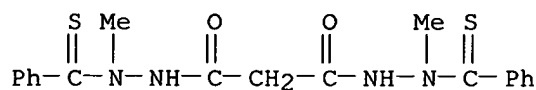
489475-30-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of bis(thiohydrazide) derivs. as taxol enhancer compds. for the treatment of cancer)

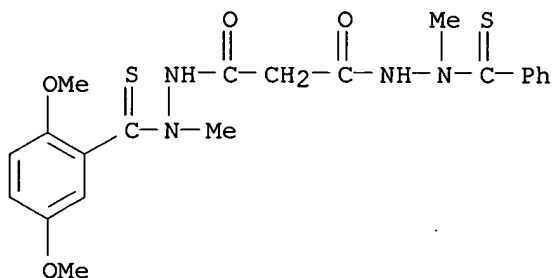
RN 488832-69-5 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA INDEX NAME)



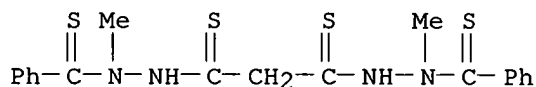
RN 488832-71-9 HCAPLUS

CN Propanedioic acid, 2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide 2-methyl-2-(phenylthioxomethyl)hydrazide (9CI) (CA INDEX NAME)



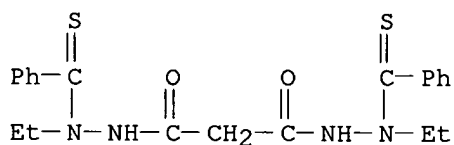
RN 488832-72-0 HCAPLUS

CN Propanebis(thioic) acid, bis[2-methyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA INDEX NAME)



RN 488832-73-1 HCAPLUS

CN Propanedioic acid, bis[2-ethyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA INDEX NAME)



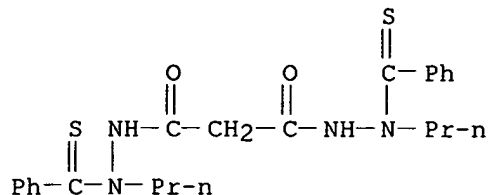
RN 488832-74-2 HCAPLUS

CN Propanedioic acid, bis[2-(phenylthioxomethyl)-2-propylhydrazide] (9CI)

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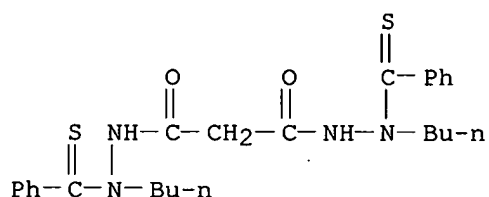
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(CA INDEX NAME)



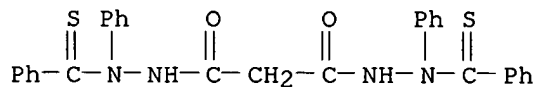
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CN Propanedioic acid, bis[2-butyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA INDEX NAME)



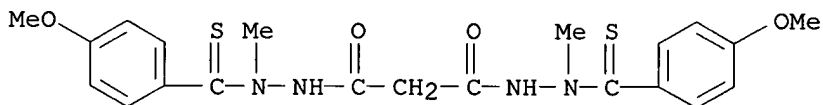
RN 488832-82-2 HCAPLUS

CN Propanedioic acid, bis[2-phenyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA INDEX NAME)



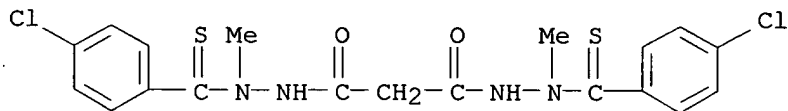
RN 488832-83-3 HCAPLUS

CN Propanedioic acid, bis[2-[(4-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488832-84-4 HCAPLUS

CN Propanedioic acid, bis[2-[(4-chlorophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

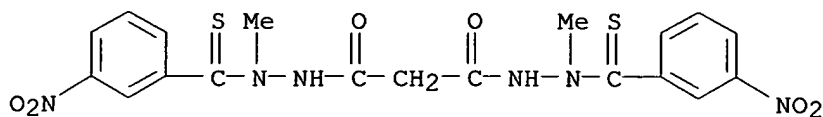


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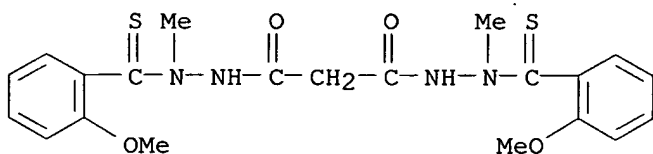
RN 488832-86-6 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(3-nitrophenyl)thioxomethyl]hydrazide]
(9CI) (CA INDEX NAME)



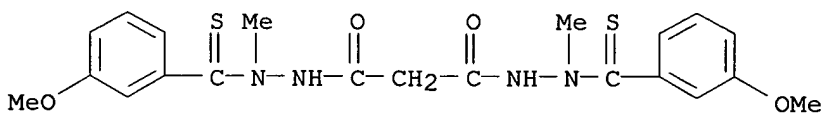
RN 488832-87-7 HCAPLUS

CN Propanedioic acid, bis[2-[(2-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



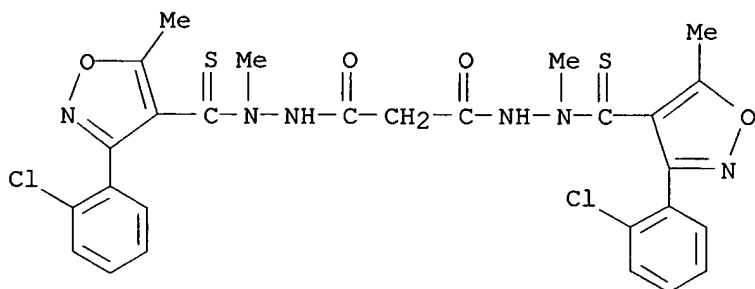
RN 488832-88-8 HCAPLUS

CN Propanedioic acid, bis[2-[(3-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488832-90-2 HCAPLUS

CN Propanedioic acid, bis[2-[[3-(2-chlorophenyl)-5-methyl-4-isoxazolyl]thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

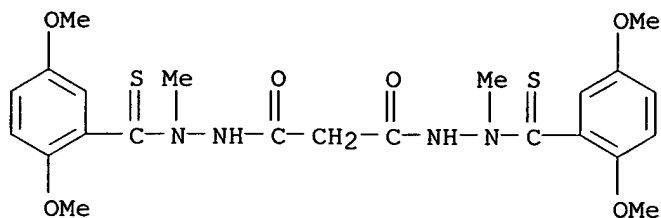


RN 488832-91-3 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

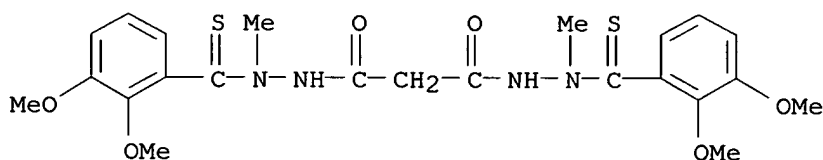
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10/758,589



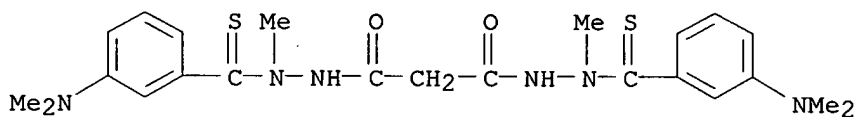
RN 488832-92-4 HCAPLUS

CN Propanedioic acid, bis[2-[(2,3-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



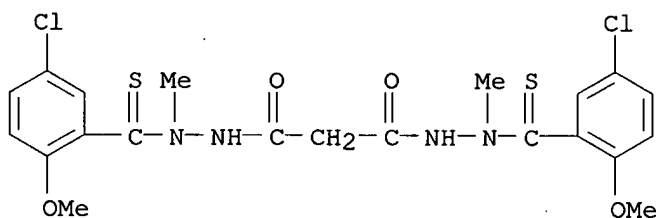
RN 488832-94-6 HCAPLUS

CN Propanedioic acid, bis[2-[[3-(dimethylamino)phenyl]thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488832-95-7 HCAPLUS

CN Propanedioic acid, bis[2-[(5-chloro-2-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

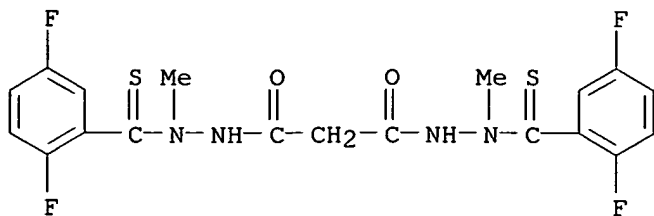


RN 488832-97-9 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-difluorophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

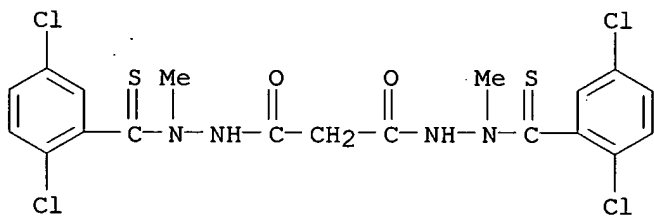
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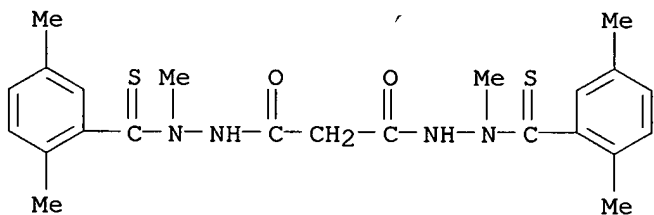
RN 488832-99-1 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-dichlorophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



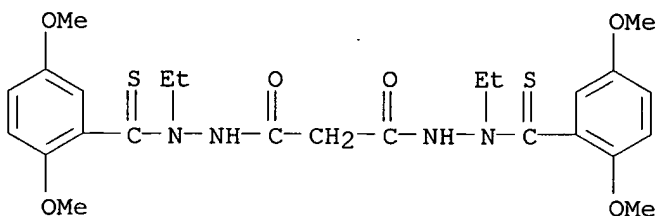
RN 488833-02-9 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-dimethylphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488833-04-1 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-ethylhydrazide] (9CI) (CA INDEX NAME)



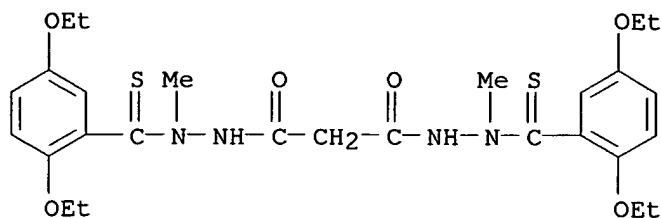
RN 488833-06-3 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-diethoxyphenyl)thioxomethyl]-2-

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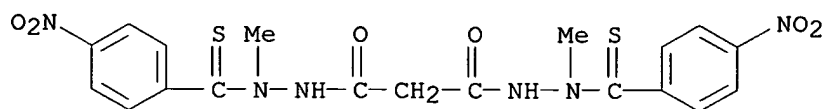
10/758,589

methylhydrazide] (9CI) (CA INDEX NAME)



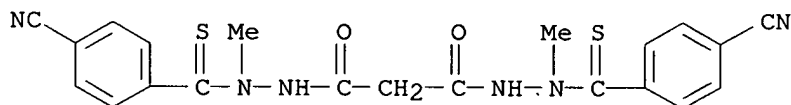
RN 488833-08-5 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(4-nitrophenyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)



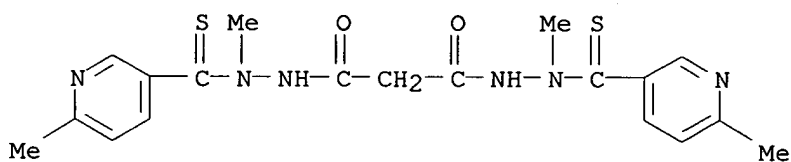
RN 488833-09-6 HCAPLUS

CN Propanedioic acid, bis[2-[(4-cyanophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



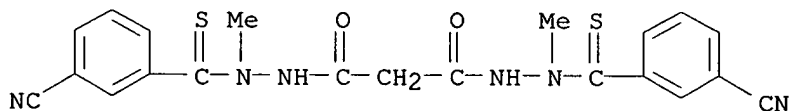
RN 488833-10-9 HCAPLUS

CN Propanedioic acid, bis[2-[(6-methyl-3-pyridinyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488833-11-0 HCAPLUS

CN Propanedioic acid, bis[2-[(3-cyanophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

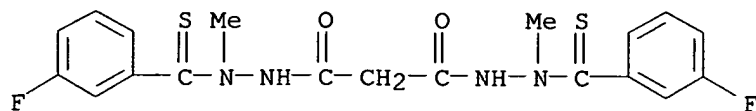


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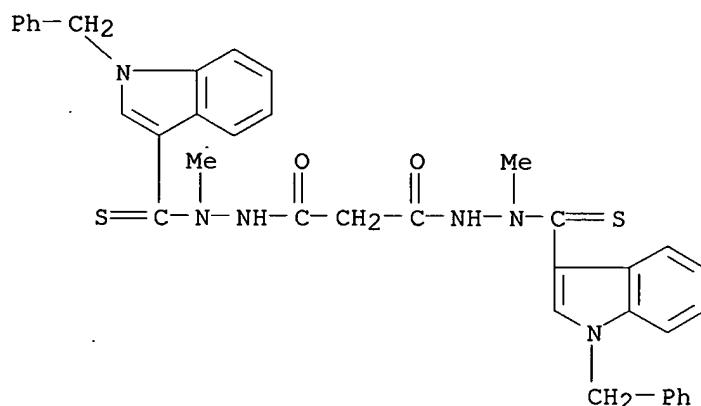
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CN Propanedioic acid, bis[2-[(3-fluorophenyl)thioxomethyl]-2-methylhydrazide]
(9CI) (CA INDEX NAME)



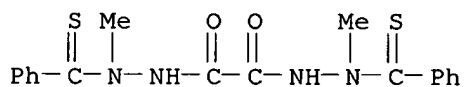
RN 488833-13-2 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[[1-(phenylmethyl)-1H-indol-3-yl]thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)



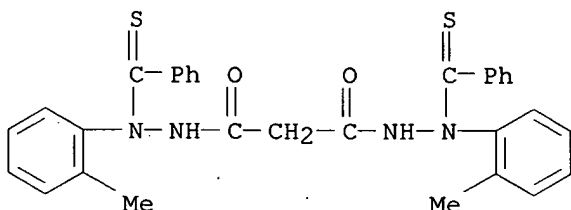
RN 488833-14-3 HCAPLUS

CN Ethanedioic acid, bis[2-methyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA INDEX NAME)



RN 488833-21-2 HCAPLUS

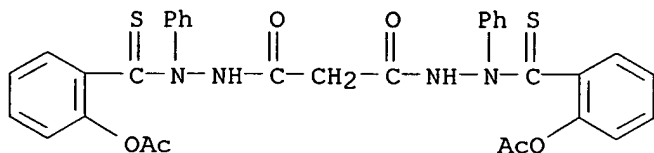
CN Propanedioic acid, bis[2-(2-methylphenyl)-2-(phenylthioxomethyl)hydrazide]
(9CI) (CA INDEX NAME)



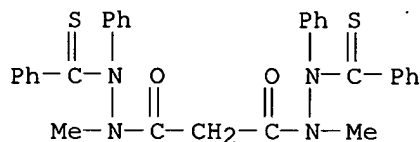
RN 488833-22-3 HCAPLUS

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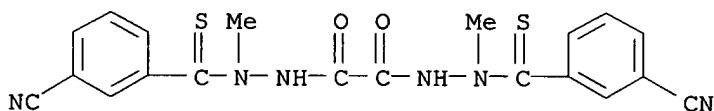
CN Propanedioic acid, bis[2-[[2-(acetyloxy)phenyl]thioxomethyl]-2-phenylhydrazide] (9CI) (CA INDEX NAME)



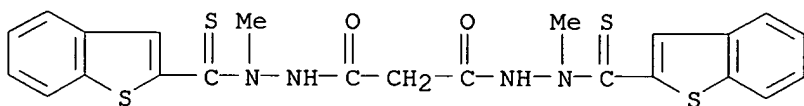
CN Propanedioic acid, bis[1-methyl-2-phenyl-2-(phenylthioxomethyl)hydrazide]
(9CI) (CA INDEX NAME)



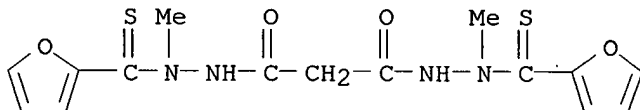
CN Ethanedioic acid, bis[2-[(3-cyanophenyl)thioxomethyl]-2-methylhydrazide]
(9CI) (CA INDEX NAME)



CN Propanedioic acid, bis[2-(benzo[b]thien-2-ylthioxomethyl)-2-methylhydrazide] (9CI) (CA INDEX NAME)



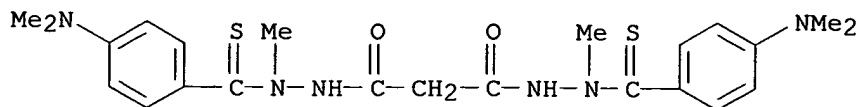
CN Propanedioic acid, bis[2-(2-furanylthioxomethyl)-2-methylhydrazide] (9CI)
(CA INDEX NAME)



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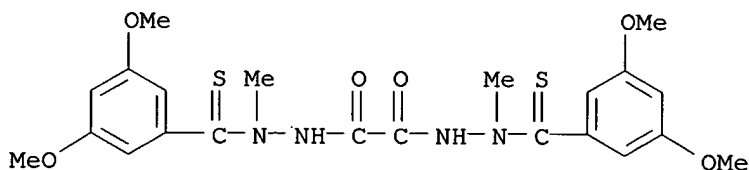
10/758,589

CN Propanedioic acid, bis[2-[[4-(dimethylamino)phenyl]thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



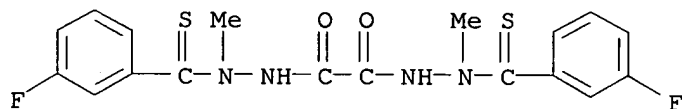
RN 489475-22-1 HCAPLUS

CN Ethanedioic acid, bis[2-[(3,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



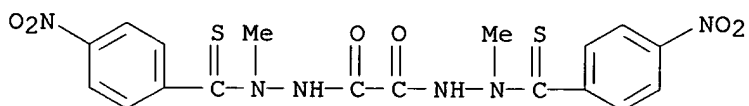
RN 489475-24-3 HCAPLUS

CN Ethanedioic acid, bis[2-[(3-fluorophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 489475-25-4 HCAPLUS

CN Ethanedioic acid, bis[2-methyl-2-[(4-nitrophenyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)

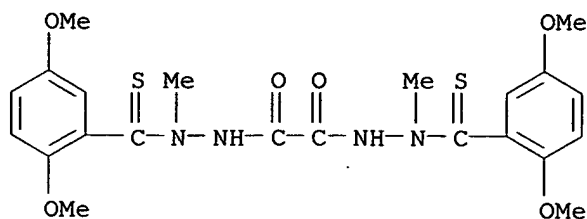


RN 489475-26-5 HCAPLUS

CN Ethanedioic acid, bis[2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

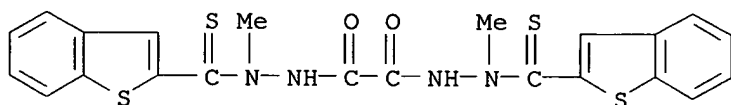
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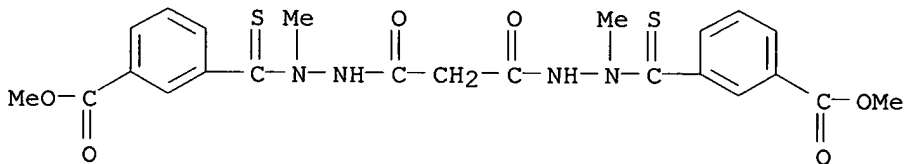
RN 489475-28-7 HCAPLUS

CN Ethanedioic acid, bis[2-(benzo[b]thien-2-ylthioxomethyl)-2-methylhydrazide] (9CI) (CA INDEX NAME)



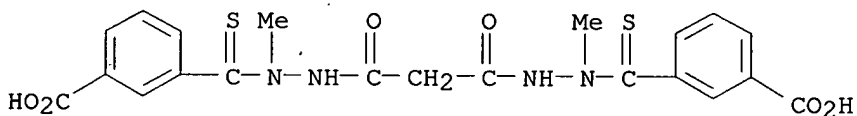
RN 489475-29-8 HCAPLUS

CN Propanedioic acid, bis[2-[[3-(methoxycarbonyl)phenyl]thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



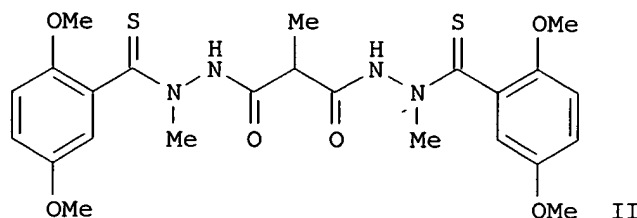
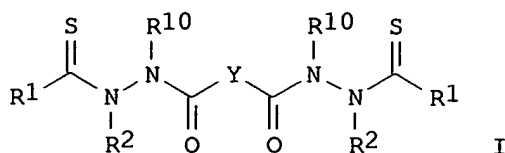
RN 489475-30-1 HCAPLUS

CN Propanedioic acid, bis[2-[(3-carboxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



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AB Disclosed is a method of preparing bis(thiohydrazide) I [R1-2 = aliphatic, aryl,

etc.; R10 = H, alkyl; Y = bond, hydrocarbyl]. The method comprises reacting a hydrazide with a thionation reagent followed by reaction of the thiohydrazide with Z-C(O)-Y-C(O)-Z or HO-C(O)-Y-C(O)-OH [Z = leaving group; Y is as defined above] and a carboxylic acid activating agent to produce I. For instance, 2,5-dimethoxybenzoic acid is coupled to methylhydrazine (CH₂Cl₂, DCC, DMAP); the resulting hydrazide is treated with Lawesson's reagent and the product reacted with 2-methylmalonic acid (DMF, DCC) to give II. I enhance the anti-cancer activity of taxol and analogs thereof.

2003:58056 Document Number 138:122397 Process for the preparation of bis(thiohydrazide) derivatives used as Taxol enhancers. Chen, Shoujun; Sun, Lijun; Xia, Zhi-Qiang; Koya, Keizo; Ono, Mitsunori (SBR Pharmaceuticals Corp., USA). PCT Int. Appl. WO 2003006429 A1 20030123, 57 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-US21716 20020710. PRIORITY: US 2001-2001/PV304318 20010710.

IT 488831-49-8P 488831-52-3P 488831-53-4P
 488831-54-5P 488831-55-6P 488831-56-7P
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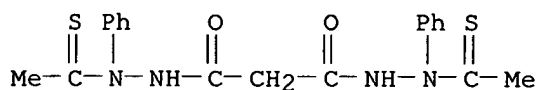
488833-26-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(process for preparation of bis(thiohydrazide) derivs. used as Taxol enhancers)

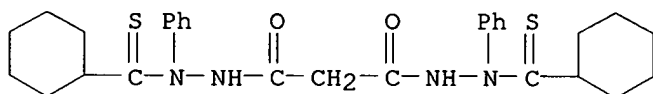
RN 488831-49-8 HCAPLUS

CN Propanedioic acid, bis[2-phenyl-2-(1-thioxoethyl)hydrazide] (9CI) (CA INDEX NAME)



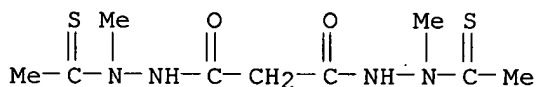
RN 488831-52-3 HCAPLUS

CN Propanedioic acid, bis[2-(cyclohexylthioxomethyl)-2-phenylhydrazide] (9CI) (CA INDEX NAME)



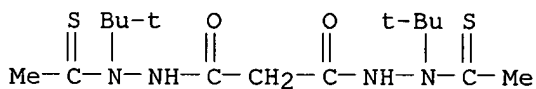
RN 488831-53-4 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-(1-thioxoethyl)hydrazide] (9CI) (CA INDEX NAME)



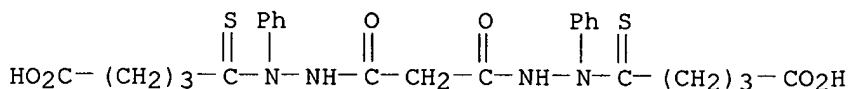
RN 488831-54-5 HCAPLUS

CN Propanedioic acid, bis[2-(1,1-dimethylethyl)-2-(1-thioxoethyl)hydrazide] (9CI) (CA INDEX NAME)



RN 488831-55-6 HCAPLUS

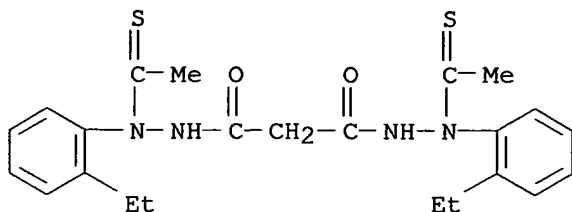
CN Propanedioic acid, bis[2-(4-carboxy-1-thioxobutyl)-2-phenylhydrazide] (9CI) (CA INDEX NAME)



RN 488831-56-7 HCAPLUS

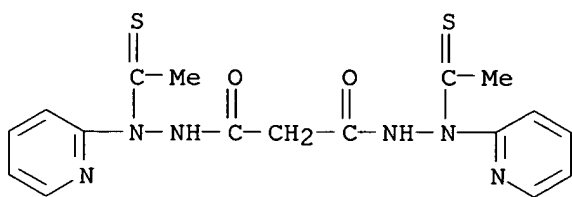
10/758,589

CN Propanedioic acid, bis[2-(2-ethylphenyl)-2-(1-thioxoethyl)hydrazide] (9CI)
(CA INDEX NAME)



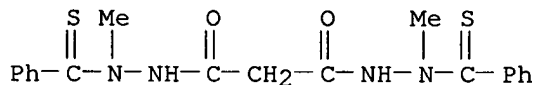
RN 488831-57-8 HCAPLUS

CN Propanedioic acid, bis[2-(2-pyridinyl)-2-(1-thioxoethyl)hydrazide] (9CI)
(CA INDEX NAME)



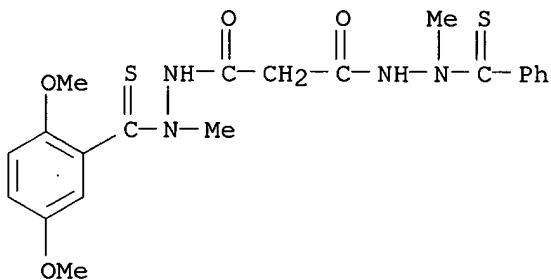
RN 488832-69-5 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-(phenylthioxomethyl)hydrazide] (9CI)
(CA INDEX NAME)



RN 488832-71-9 HCAPLUS

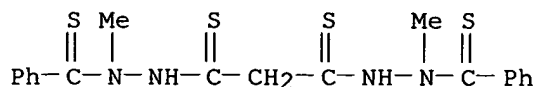
CN Propanedioic acid, 2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide
2-methyl-2-(phenylthioxomethyl)hydrazide (9CI) (CA INDEX NAME)



RN 488832-72-0 HCAPLUS

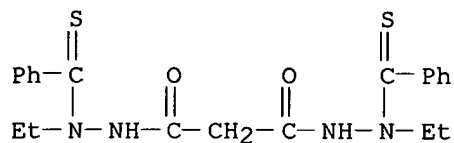
CN Propanebis(thioic) acid, bis[2-methyl-2-(phenylthioxomethyl)hydrazide]
(9CI) (CA INDEX NAME)

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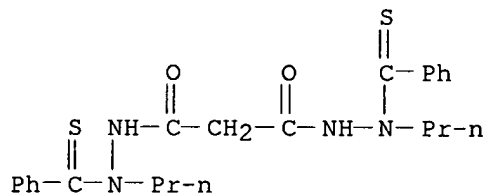
RN 488832-73-1 HCAPLUS

CN Propanedioic acid, bis[2-ethyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA INDEX NAME)



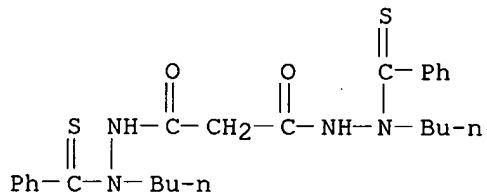
RN 488832-74-2 HCAPLUS

CN Propanedioic acid, bis[2-(phenylthioxomethyl)-2-propylhydrazide] (9CI) (CA INDEX NAME)



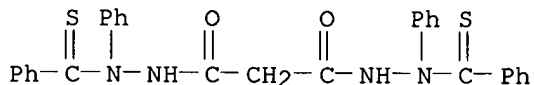
RN 488832-75-3 HCAPLUS

CN Propanedioic acid, bis[2-butyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA INDEX NAME)



RN 488832-82-2 HCAPLUS

CN Propanedioic acid, bis[2-phenyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA INDEX NAME)

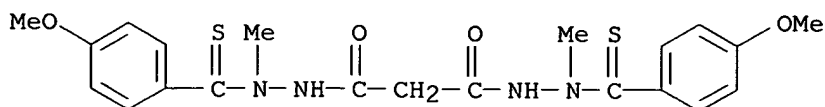


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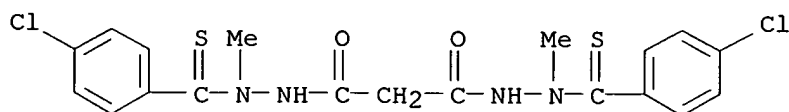
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CN Propanedioic acid, bis[2-[(4-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



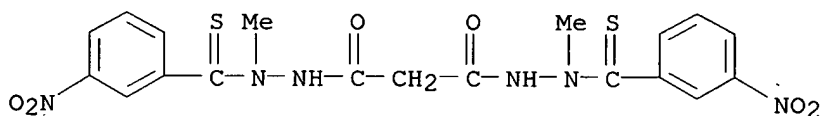
RN 488832-84-4 HCAPLUS

CN Propanedioic acid, bis[2-[(4-chlorophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



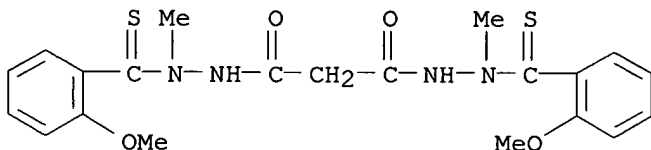
RN 488832-86-6 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(3-nitrophenyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)



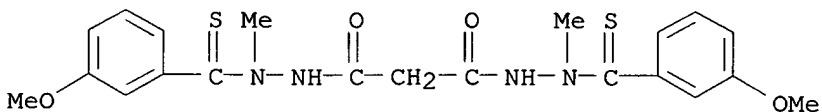
RN 488832-87-7 HCAPLUS

CN Propanedioic acid, bis[2-[(2-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488832-88-8 HCAPLUS

CN Propanedioic acid, bis[2-[(3-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

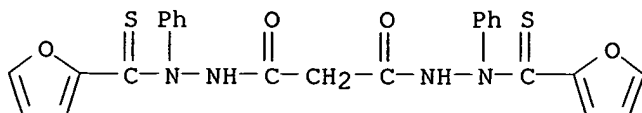


RN 488832-89-9 HCAPLUS

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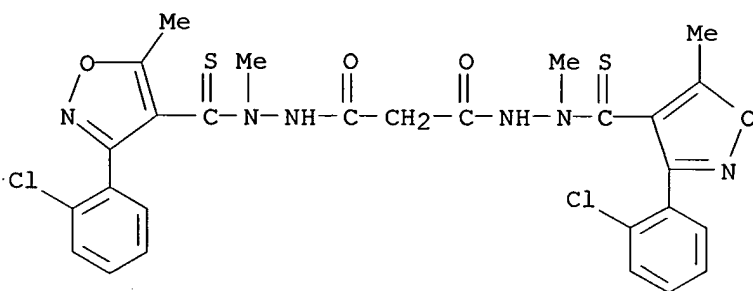
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CN Propanedioic acid, bis[2-(2-furanylthioxomethyl)-2-phenylhydrazide] (9CI)
(CA INDEX NAME)



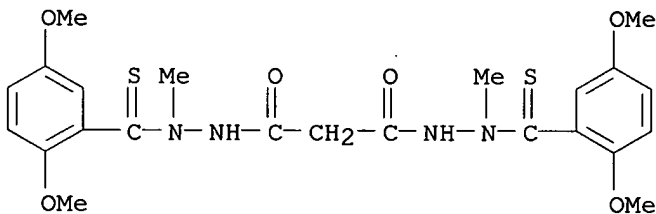
RN 488832-90-2 HCAPLUS

CN Propanedioic acid, bis[2-[[3-(2-chlorophenyl)-5-methyl-4-isoxazolyl]thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



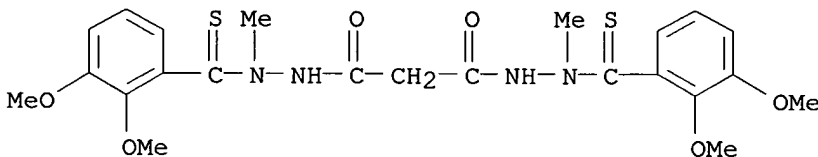
RN 488832-91-3 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488832-92-4 HCAPLUS

CN Propanedioic acid, bis[2-[(2,3-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



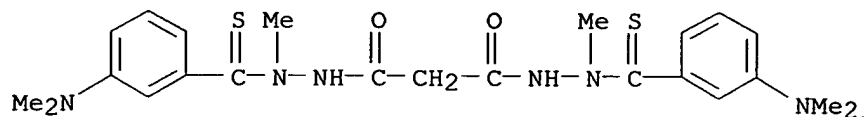
RN 488832-94-6 HCAPLUS

CN Propanedioic acid, bis[2-[[3-(dimethylamino)phenyl]thioxomethyl]-2-

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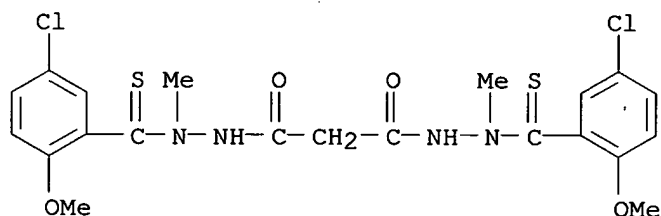
10/758,589

methylhydrazide] (9CI) (CA INDEX NAME)



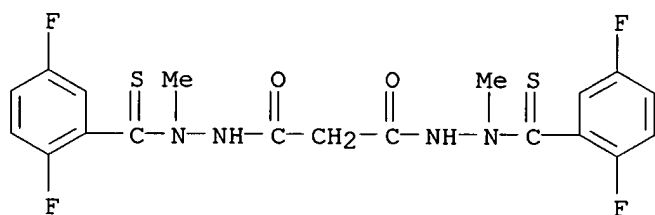
RN 488832-95-7 HCAPLUS

CN Propanedioic acid, bis[2-[(5-chloro-2-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



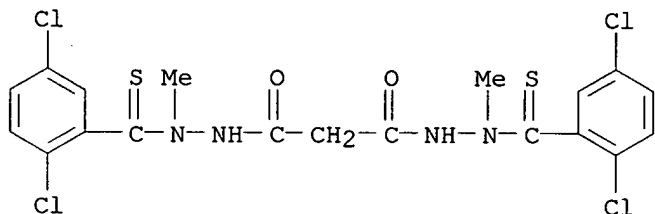
RN 488832-97-9 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-difluorophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488832-99-1 HCAPLUS

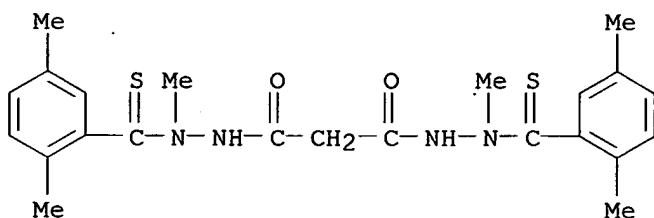
CN Propanedioic acid, bis[2-[(2,5-dichlorophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488833-02-9 HCAPLUS

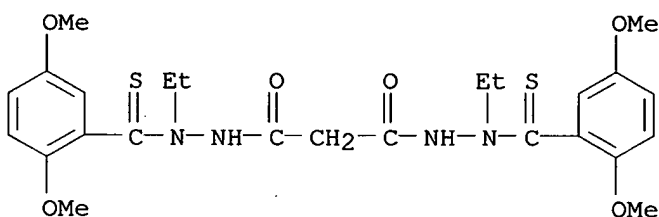
CN Propanedioic acid, bis[2-[(2,5-dimethylphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

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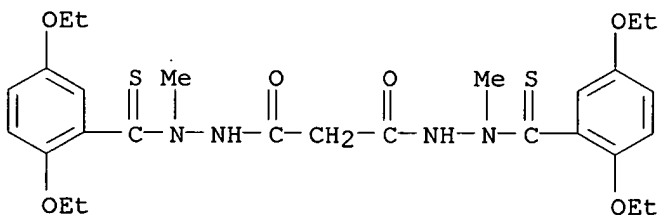
RN 488833-04-1 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-ethylhydrazide] (9CI) (CA INDEX NAME)



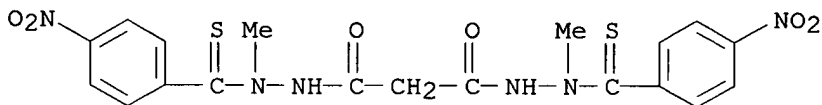
RN 488833-06-3 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-diethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488833-08-5 HCAPLUS

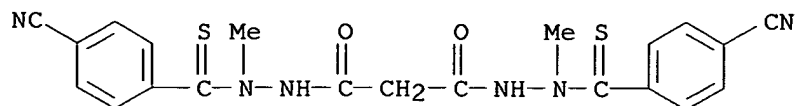
CN Propanedioic acid, bis[2-methyl-2-[(4-nitrophenyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)



RN 488833-09-6 HCAPLUS

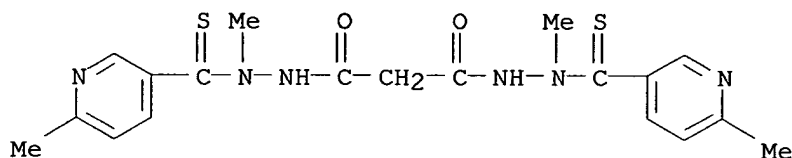
CN Propanedioic acid, bis[2-[(4-cyanophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

10/758,589



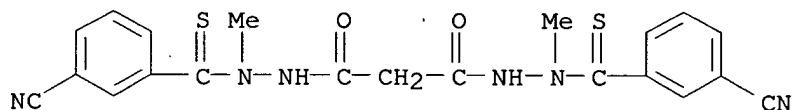
RN 488833-10-9 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(6-methyl-3-pyridinyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)



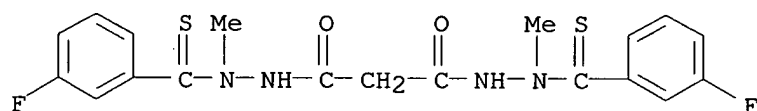
RN 488833-11-0 HCAPLUS

CN Propanedioic acid, bis[2-[(3-cyanophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488833-12-1 HCAPLUS

CN Propanedioic acid, bis[2-[(3-fluorophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

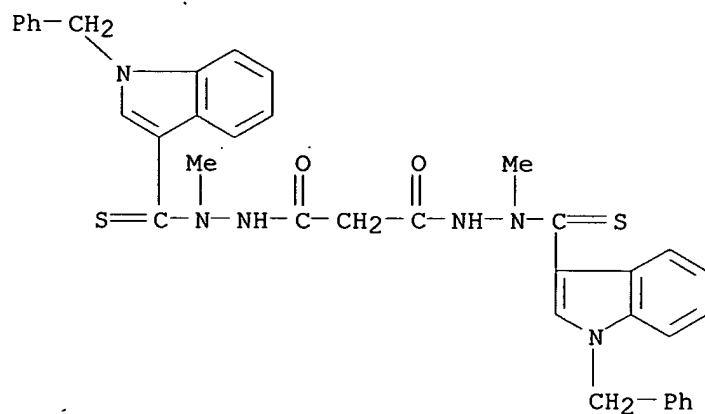


RN 488833-13-2 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[[1-(phenylmethyl)-1H-indol-3-yl]thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)

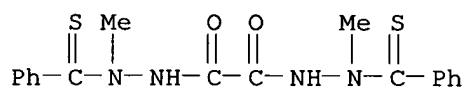
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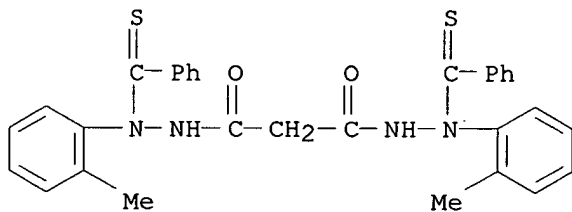
RN 488833-14-3 HCAPLUS

CN Ethanedioic acid, bis[2-methyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA INDEX NAME)



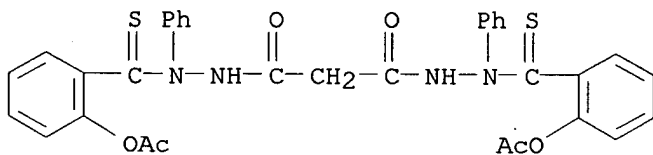
RN 488833-21-2 HCAPLUS

CN Propanedioic acid, bis[2-(2-methylphenyl)-2-(phenylthioxomethyl)hydrazide] (9CI) (CA INDEX NAME)



RN 488833-22-3 HCAPLUS

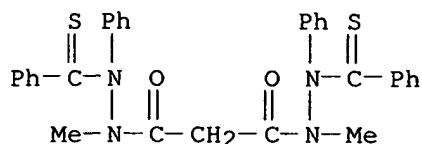
CN Propanedioic acid, bis[2-[[2-(acetyloxy)phenyl]thioxomethyl]-2-phenylhydrazide] (9CI) (CA INDEX NAME)



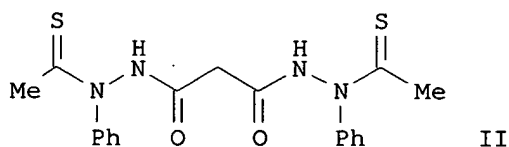
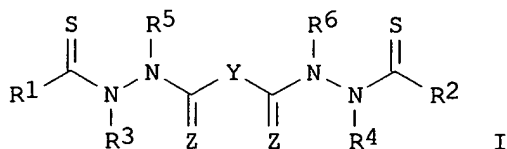
RN 488833-26-7 HCAPLUS

CN Propanedioic acid, bis[1-methyl-2-phenyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA INDEX NAME)

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L5 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
GI



AB Title compds. I [Y = bond, phenylene, hydrocarbyl or taken together with both >C=Z groups is aromatic; R1-2 = (un)substituted aryl; R3-4 = H, alkyl, aryl; R5-6 = H, alkyl, aryl; Z = O, with provisions] and analogs are prepared For instance, phenylhydrazine was reacted with Et malonate (xylene, reflux) and the resulting bis(hydrazide), acetylated (Ac2O, HClO4) and treated with HCl/acetone/Na2S to afford II. The combination of example compds. and paclitaxel administered to mice with tumors (MDA-435) results in greater tumor reduction than either active component given alone.

2003:58055 Document Number 138:122396 Preparation of bis(thiohydrazide) derivatives as Taxol enhancer compounds. Koya, Keizo; Sun, Lijun; Chen, Shoujun; Tatsuta, Noriaki; Wu, Yaming; Ono, Mitsunori; Xia, Zhi-Qiang (SBR Pharmaceuticals Corp., USA). PCT Int. Appl. WO 2003006428 A1 20030123, 93 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-US21714 20020710. PRIORITY: US 2001-2001/PV30425U 20010710; US 2002-2002/PV361936 20020306.

IT 488831-49-8P 488831-50-1P 488831-52-3P
488831-53-4P 488831-54-5P 488831-55-6P
488831-56-7P 488831-57-8P 488831-59-0P
488831-60-3P 488831-61-4P 488831-63-6P
488831-64-7P 488831-65-8P 488831-66-9P
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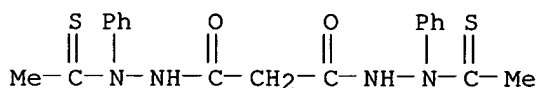
DELACROIX

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of bis(thiohydrazide) derivs. as Taxol enhancer compds. for the treatment of cancer)

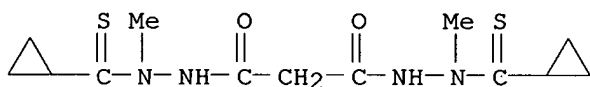
RN 488831-49-8 HCAPLUS

CN Propanedioic acid, bis[2-phenyl-2-(1-thioxoethyl)hydrazide] (9CI) (CA INDEX NAME)



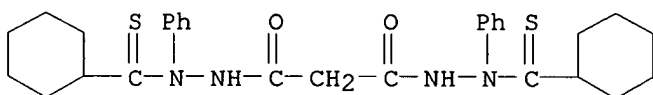
RN 488831-50-1 HCAPLUS

CN Propanedioic acid, bis[2-(cyclopropylthioxomethyl)-2-methylhydrazide] (9CI) (CA INDEX NAME)



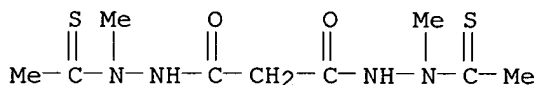
RN 488831-52-3 HCAPLUS

CN Propanedioic acid, bis[2-(cyclohexylthioxomethyl)-2-phenylhydrazide] (9CI) (CA INDEX NAME)



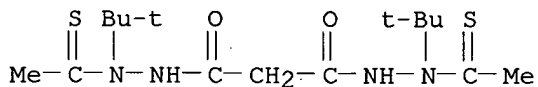
RN 488831-53-4 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-(1-thioxoethyl)hydrazide] (9CI) (CA INDEX NAME)



RN 488831-54-5 HCAPLUS

CN Propanedioic acid, bis[2-(1,1-dimethylethyl)-2-(1-thioxoethyl)hydrazide] (9CI) (CA INDEX NAME)



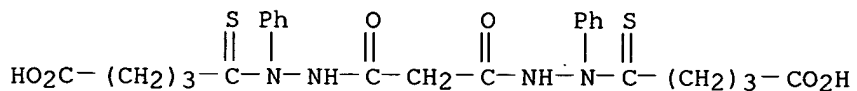
RN 488831-55-6 HCAPLUS

CN Propanedioic acid, bis[2-(4-carboxy-1-thioxobutyl)-2-phenylhydrazide]

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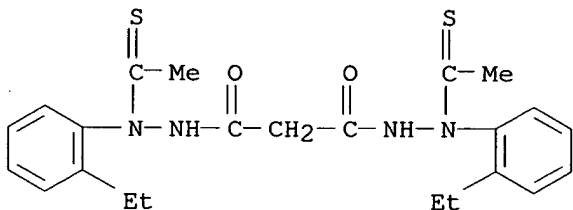
10/758,589

(9CI) (CA INDEX NAME)



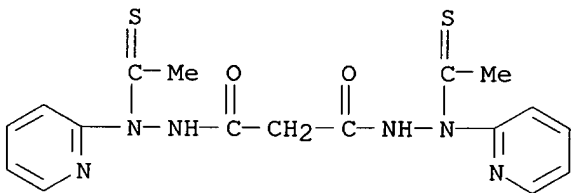
RN 488831-56-7 HCAPLUS

CN Propanedioic acid, bis[2-(2-ethylphenyl)-2-(1-thioxoethyl)hydrazide] (9CI)
(CA INDEX NAME)



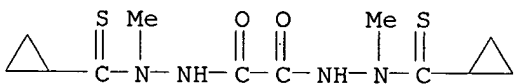
RN 488831-57-8 HCAPLUS

CN Propanedioic acid, bis[2-(2-pyridinyl)-2-(1-thioxoethyl)hydrazide] (9CI)
(CA INDEX NAME)



RN 488831-59-0 HCAPLUS

CN Ethanedioic acid, bis[2-(cyclopropylthioxomethyl)-2-methylhydrazide] (9CI)
(CA INDEX NAME)

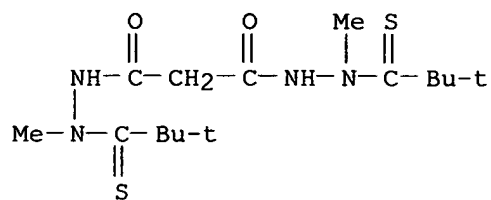


RN 488831-60-3 HCAPLUS

CN Propanedioic acid, bis[2-(2,2-dimethyl-1-thioxopropyl)-2-methylhydrazide] (9CI)
(CA INDEX NAME)

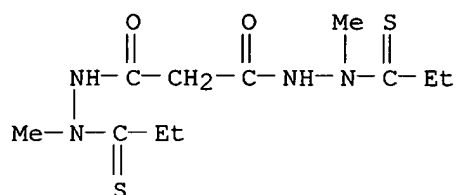
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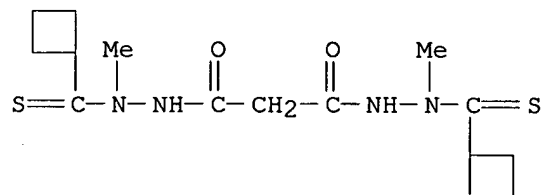
RN 488831-61-4 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-(1-thioxopropyl)hydrazide] (9CI) (CA INDEX NAME)



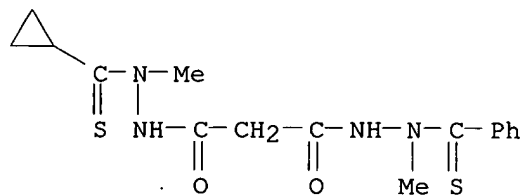
RN 488831-63-6 HCAPLUS

CN Propanedioic acid, bis[2-(cyclobutylthioxomethyl)-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488831-64-7 HCAPLUS

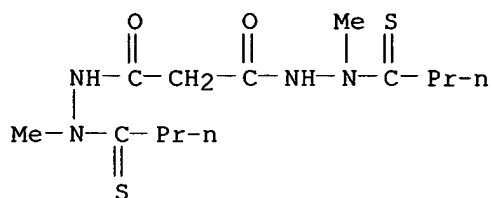
CN Propanedioic acid, 2-(cyclopropylthioxomethyl)-2-methylhydrazide 2-methyl-2-(phenylthioxomethyl)hydrazide (9CI) (CA INDEX NAME)



RN 488831-65-8 HCAPLUS

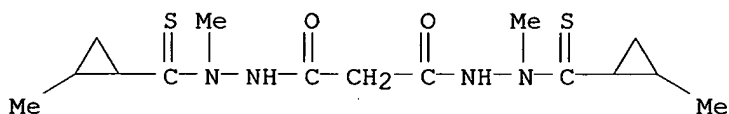
CN Propanedioic acid, bis[2-methyl-2-(1-thioxobutyl)hydrazide] (9CI) (CA INDEX NAME)

DELACROIX



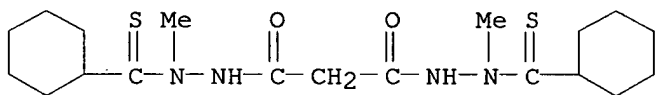
RN 488831-66-9 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(2-methylcyclopropyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)



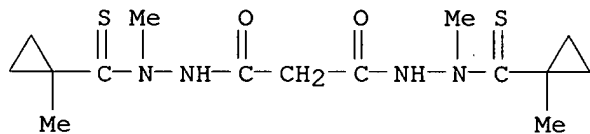
RN 488831-67-0 HCAPLUS

CN Propanedioic acid, bis[2-(cyclohexylthioxomethyl)-2-methylhydrazide] (9CI) (CA INDEX NAME)



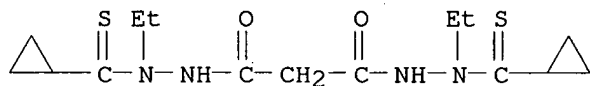
RN 488831-68-1 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(1-methylcyclopropyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)



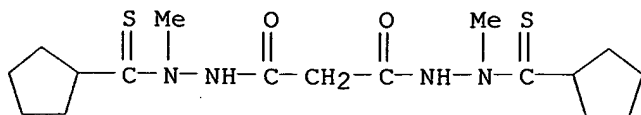
RN 488831-69-2 HCAPLUS

CN Propanedioic acid, bis[2-(cyclopropylthioxomethyl)-2-ethylhydrazide] (9CI) (CA INDEX NAME)



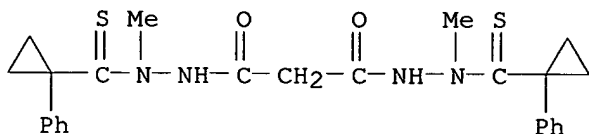
RN 488831-71-6 HCAPLUS

CN Propanedioic acid, bis[2-(cyclopentylthioxomethyl)-2-methylhydrazide] (9CI) (CA INDEX NAME)



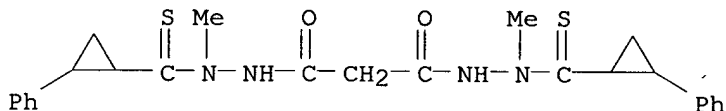
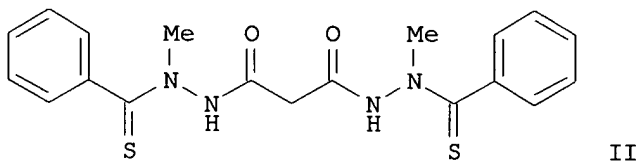
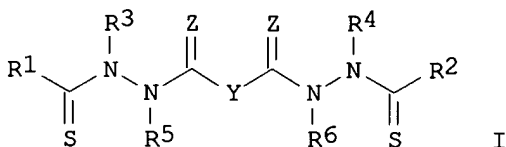
RN 488831-72-7 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(1-phenylcyclopropyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)



RN 488831-73-8 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(2-phenylcyclopropyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)

L5 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
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AB The title compds. I [wherein Y = a single bond, phenylene, or (un)substituted hydrocarbyl, etc.; R1 and R2 = independently (un)substituted aryl; R3-R6 = independently H, (un)substituted aliphatic group, or aryl; Z = O or S; etc.] and pharmaceutically acceptable salts thereof are prepared as taxol enhancers for treatment of cancer. For example, the compound II was prepared in a multi-step synthesis. Also disclosed is a method of treating a subject with cancer by administering to the subject a compound of I in combination with taxol or an analog of

taxol. II showed synergistic anticancer activity with paclitaxel in rat.
 2003:818151 Document Number 139:323341 Preparation of thiobenzoylhydrazide derivatives as taxol enhancers for treatment of cancer. Koya, Keizo; Sun, Lijun; Chen, Shoujun; Tatsuta, Noriaki; Wu, Yaming; Ono, Mitsunori (Synta Pharmaceuticals Corp., USA). U.S. Pat. Appl. Publ. US 2003195258 A1 20031016, 63 pp., Cont.-in-part of U.S. Ser. Number 193,075. (English). CODEN: USXXCO. APPLICATION: US 2003-345885 20030115. PRIORITY: US 2001-PV304252 20010710; US 2002-PV361946 20020306; US 2002-PV361936 20020306; US 2002-193075 20020710; US 2002-193639 20020710.

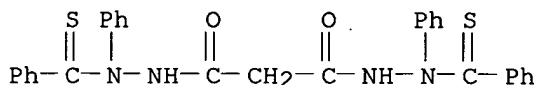
IT **488832-82-2P**

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(drug candidate; preparation of thiobenzoylhydrazide derivs. as taxol enhancers for treatment of cancer)

RN 488832-82-2 HCAPLUS

CN Propanedioic acid, bis[2-phenyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA INDEX NAME)



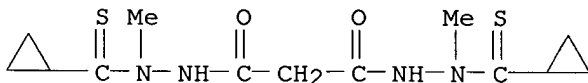
IT **488831-50-1P 488831-68-1P 488832-69-5P**
488832-71-9P 488832-72-0P 488832-73-1P
488832-74-2P 488832-75-3P 488832-83-3P
488832-84-4P 488832-86-6P 488832-87-7P
488832-88-8P 488832-89-9P 488832-91-3P
488832-92-4P 488832-94-6P 488832-95-7P
488832-97-9P 488832-99-1P 488833-02-9P
488833-04-1P 488833-06-3P 488833-08-5P
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488833-12-1P 488833-14-3P 488833-21-2P
488833-22-3P 488833-26-7P 488862-42-6P
488862-80-2P 489475-22-1P 489475-24-3P
489475-25-4P 489475-26-5P 489475-28-7P
489475-29-8P 489475-30-1P 613261-37-3P
613261-38-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of thiobenzoylhydrazide derivs. as taxol enhancers for treatment of cancer)

RN 488831-50-1 HCAPLUS

CN Propanedioic acid, bis[2-(cyclopropylthioxomethyl)-2-methylhydrazide] (9CI) (CA INDEX NAME)

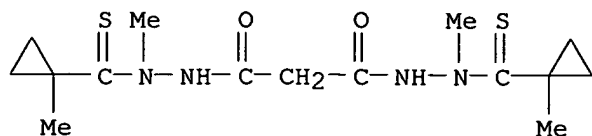


RN 488831-68-1 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(1-methylcyclopropyl)thioxomethyl]hydra

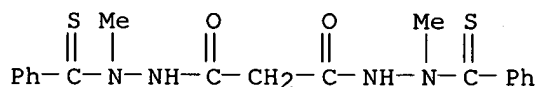
10/758,589

zide] (9CI) (CA INDEX NAME)



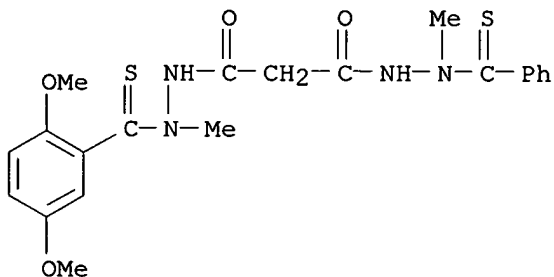
RN 488832-69-5 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-(phenylthioxomethyl)hydrazide] (9CI)
(CA INDEX NAME)



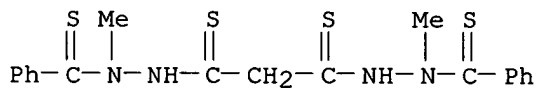
RN 488832-71-9 HCAPLUS

CN Propanedioic acid, 2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide
2-methyl-2-(phenylthioxomethyl)hydrazide (9CI) (CA INDEX NAME)



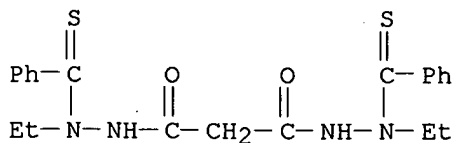
RN 488832-72-0 HCAPLUS

CN Propanebis(thioic) acid, bis[2-methyl-2-(phenylthioxomethyl)hydrazide]
(9CI) (CA INDEX NAME)



RN 488832-73-1 HCAPLUS

CN Propanedioic acid, bis[2-ethyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA
INDEX NAME)

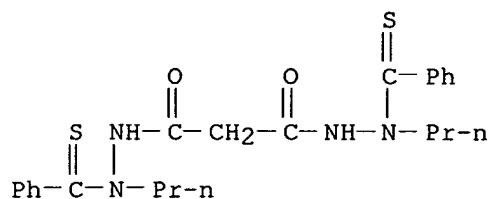


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10/758,589

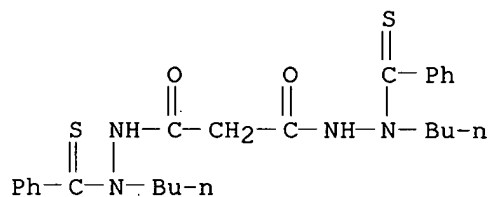
RN 488832-74-2 HCAPLUS

CN Propanedioic acid, bis[2-(phenylthioxomethyl)-2-propylhydrazide] (9CI)
(CA INDEX NAME)



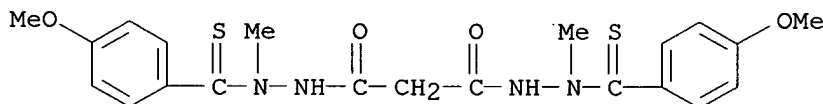
RN 488832-75-3 HCAPLUS

CN Propanedioic acid, bis[2-butyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA INDEX NAME)



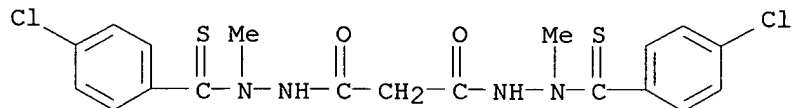
RN 488832-83-3 HCAPLUS

CN Propanedioic acid, bis[2-[(4-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488832-84-4 HCAPLUS

CN Propanedioic acid, bis[2-[(4-chlorophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

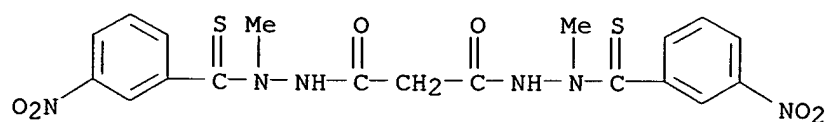


RN 488832-86-6 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(3-nitrophenyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)

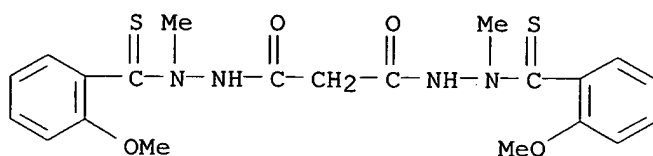
DELACROIX

10/758,589



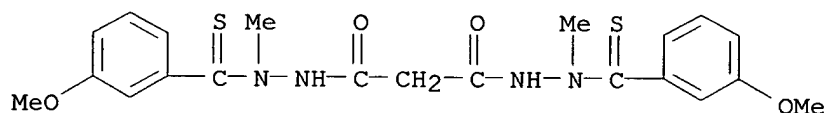
RN 488832-87-7 HCAPLUS

CN Propanedioic acid, bis[2-[(2-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



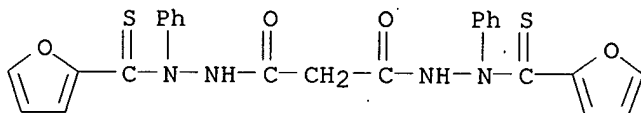
RN 488832-88-8 HCAPLUS

CN Propanedioic acid, bis[2-[(3-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



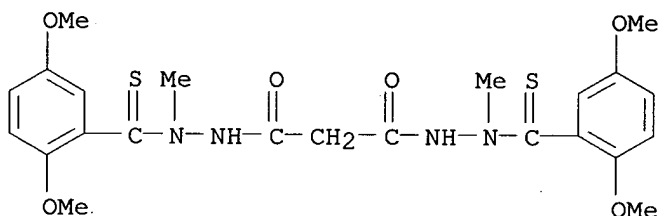
RN 488832-89-9 HCAPLUS

CN Propanedioic acid, bis[2-(2-furanylthioxomethyl)-2-phenylhydrazide] (9CI) (CA INDEX NAME)



RN 488832-91-3 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



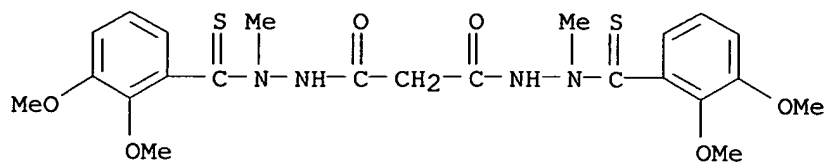
RN 488832-92-4 HCAPLUS

CN Propanedioic acid, bis[2-[(2,3-dimethoxyphenyl)thioxomethyl]-2-

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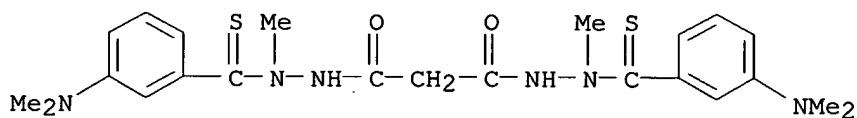
10/758,589

methylhydrazide] (9CI) (CA INDEX NAME)



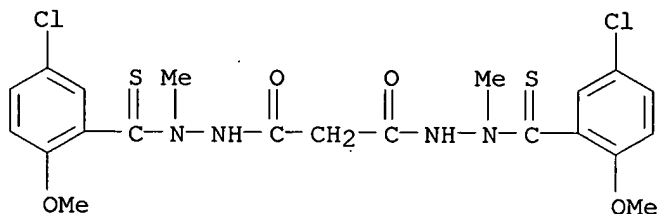
RN 488832-94-6 HCAPLUS

CN Propanedioic acid, bis[2-[[3-(dimethylamino)phenyl]thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



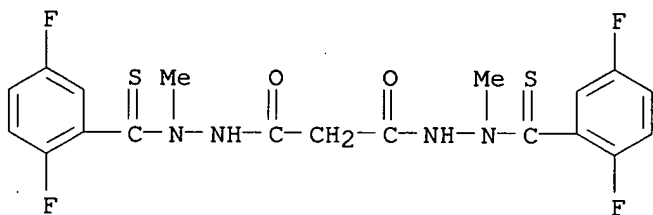
RN 488832-95-7 HCAPLUS

CN Propanedioic acid, bis[2-[(5-chloro-2-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 488832-97-9 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-difluorophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

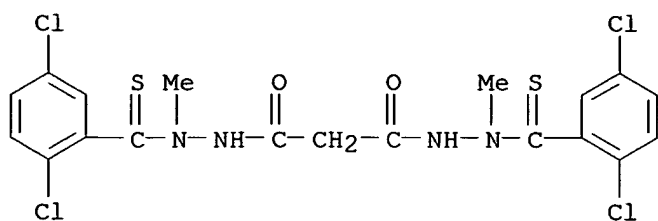


RN 488832-99-1 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-dichlorophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

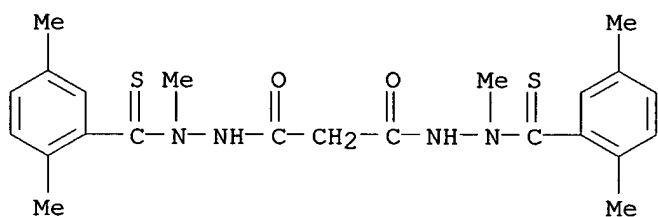
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10/758,589



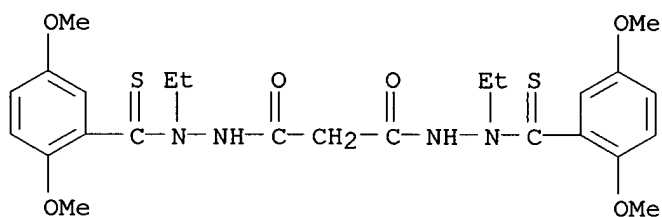
RN 488833-02-9 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-dimethylphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



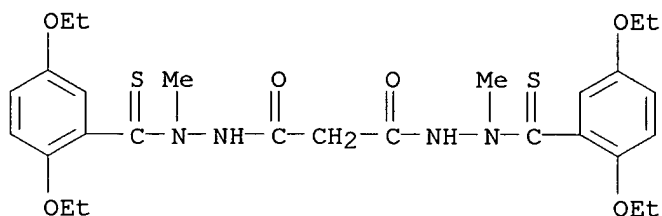
RN 488833-04-1 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-ethylhydrazide] (9CI) (CA INDEX NAME)



RN 488833-06-3 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-diethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



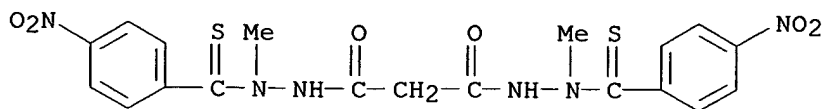
RN 488833-08-5 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(4-nitrophenyl)thioxomethyl]hydrazide]

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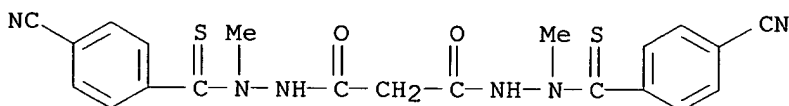
10/758,589

(9CI) (CA INDEX NAME)



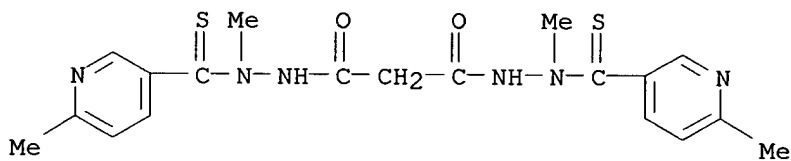
RN 488833-09-6 HCAPLUS

CN Propanedioic acid, bis[2-[(4-cyanophenyl)thioxomethyl]-2-methylhydrazide]
(9CI) (CA INDEX NAME)



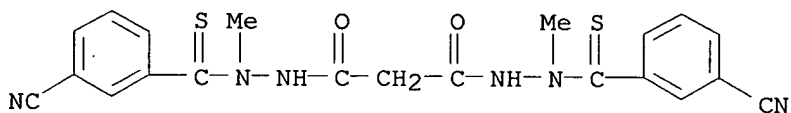
RN 488833-10-9 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(6-methyl-3-pyridinyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)



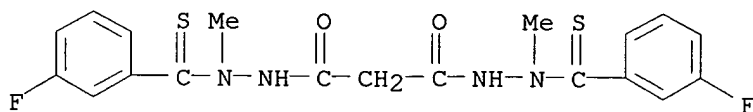
RN 488833-11-0 HCAPLUS

CN Propanedioic acid, bis[2-[(3-cyanophenyl)thioxomethyl]-2-methylhydrazide]
(9CI) (CA INDEX NAME)



RN 488833-12-1 HCAPLUS

CN Propanedioic acid, bis[2-[(3-fluorophenyl)thioxomethyl]-2-methylhydrazide]
(9CI) (CA INDEX NAME)



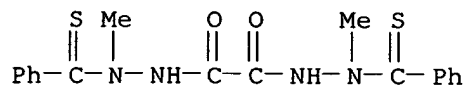
RN 488833-14-3 HCAPLUS

CN Ethanedioic acid, bis[2-methyl-2-(phenylthioxomethyl)hydrazide] (9CI) (CA

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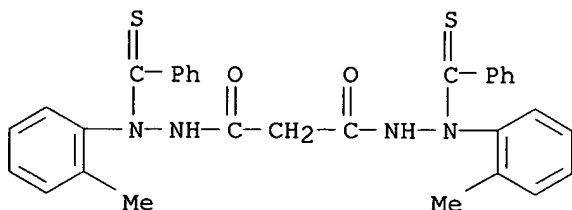
10/758,589

INDEX NAME)



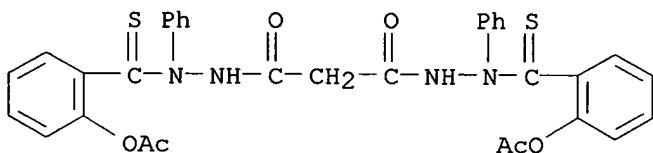
RN 488833-21-2 HCAPLUS

CN Propanedioic acid, bis[2-(2-methylphenyl)-2-(phenylthioxomethyl)hydrazide]
(9CI) (CA INDEX NAME)



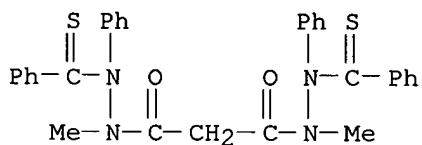
RN 488833-22-3 HCAPLUS

CN Propanedioic acid, bis[2-[[2-(acetyloxy)phenyl]thioxomethyl]-2-phenylhydrazide] (9CI) (CA INDEX NAME)



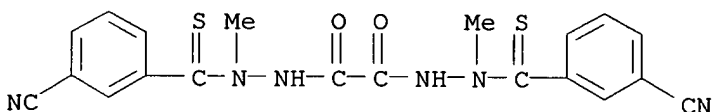
RN 488833-26-7 HCAPLUS

CN Propanedioic acid, bis[1-methyl-2-phenyl-2-(phenylthioxomethyl)hydrazide]
(9CI) (CA INDEX NAME)



RN 488862-42-6 HCAPLUS

CN Ethanedioic acid, bis[2-[(3-cyanophenyl)thioxomethyl]-2-methylhydrazide]
(9CI) (CA INDEX NAME)

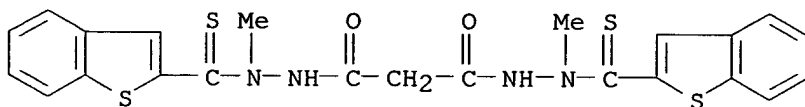


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10/758,589

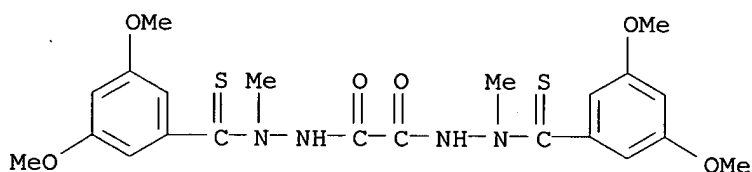
RN 488862-80-2 HCAPLUS

CN Propanedioic acid, bis[2-(benzo[b]thien-2-ylthioxomethyl)-2-methylhydrazide] (9CI) (CA INDEX NAME)



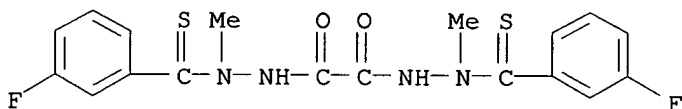
RN 489475-22-1 HCAPLUS

CN Ethanedioic acid, bis[2-[(3,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



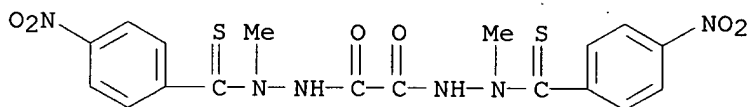
RN 489475-24-3 HCAPLUS

CN Ethanedioic acid, bis[2-[(3-fluorophenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



RN 489475-25-4 HCAPLUS

CN Ethanedioic acid, bis[2-methyl-2-[(4-nitrophenyl)thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)



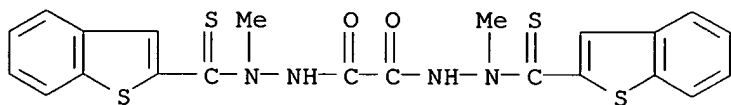
RN 489475-26-5 HCAPLUS

CN Ethanedioic acid, bis[2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

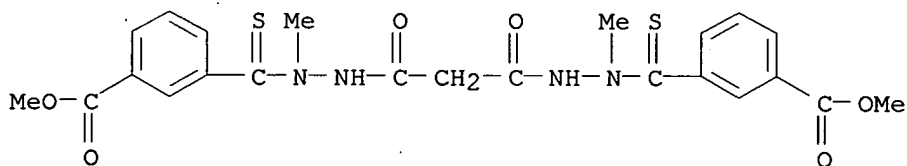
DELACROIX

COc1ccc(cc1)C(=S)N(C)NC(=O)C(=O)NC(C)S(=C)c1ccc(OC)cc1

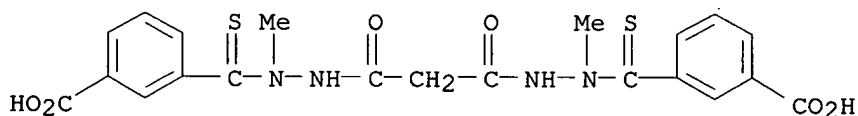
CN Ethanedioic acid, bis[2-(benzo[b]thien-2-ylthioxomethyl)-2-methylhydrazide] (9CI) (CA INDEX NAME)



CN Propanedioic acid, bis[2-[[3-(methoxycarbonyl)phenyl]thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



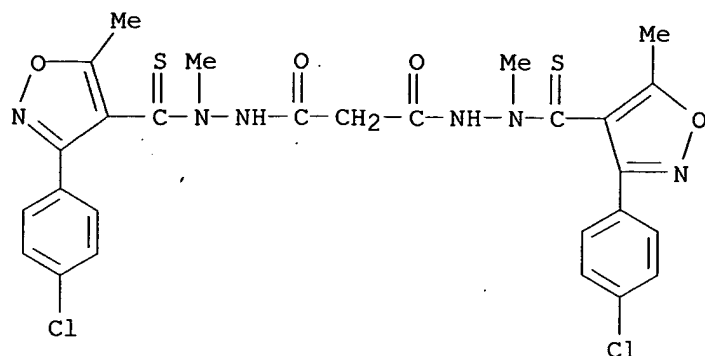
CN Propanedioic acid, bis[2-[(3-carboxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)



CN Propanedioic acid, bis[2-[[3-(4-chlorophenyl)-5-methyl-4-isoxazolyl]thioxomethyl]-2-methylhydrazide] (9CI) (CA INDEX NAME)

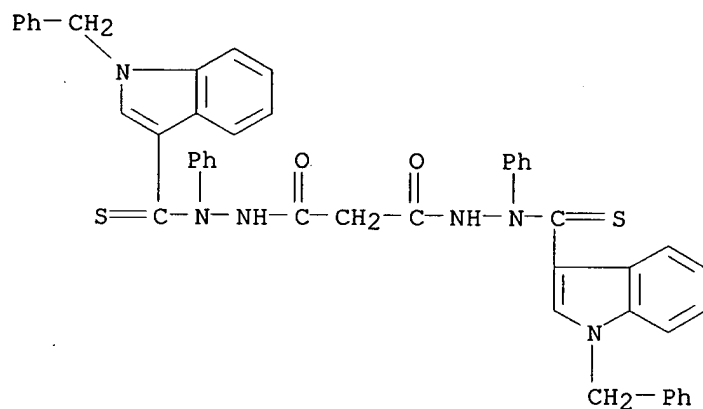
DELACROIX

10/758,589



RN 613261-38-4 HCAPLUS

CN Propanedioic acid, bis[2-phenyl-2-[[1-(phenylmethyl)-1H-indol-3-yl]thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)



IT 613261-39-5 613261-40-8 613261-41-9

613261-42-0 613261-44-2

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(synergistic composition; preparation of thiobenzoylhydrazide derivs. as taxol enhancers for treatment of cancer)

RN 613261-39-5 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-(phenylthioxomethyl)hydrazide], mixt. with (αR,βS)-(2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-6,12b-bis(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-4,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl β-(benzoylamino)-α-hydroxybenzenepropanoate (9CI) (CA INDEX NAME)

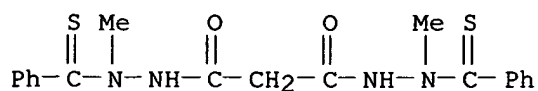
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CRN 488832-69-5

CMF C19 H20 N4 O2 S2

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10/758,589

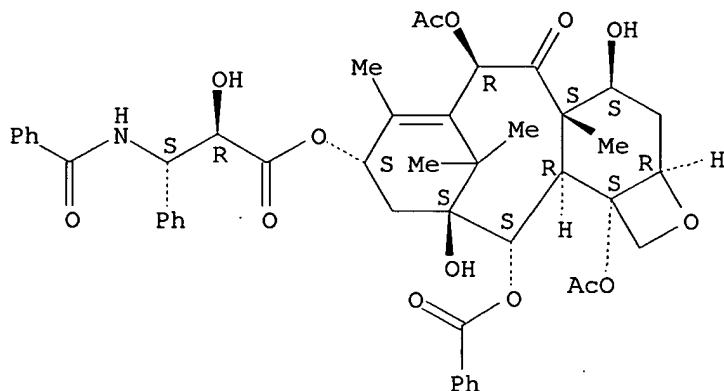


CM 2

CRN 33069-62-4

CMF C47 H51 N O14

Absolute stereochemistry. Rotation (-).



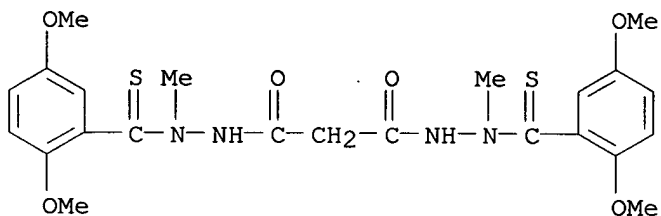
RN 613261-40-8 HCAPLUS

CN Propanedioic acid, bis[2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide], mixt. with (α R, β S)-
(2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-6,12b-bis(acetyloxy)-12-(benzoyloxy)-
2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-4,11-dihydroxy-4a,8,13,13-
tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl
 β -(benzoylamino)- α -hydroxybenzenepropanoate (9CI) (CA INDEX
NAME)

CM 1

CRN 488832-91-3

CMF C23 H28 N4 O6 S2



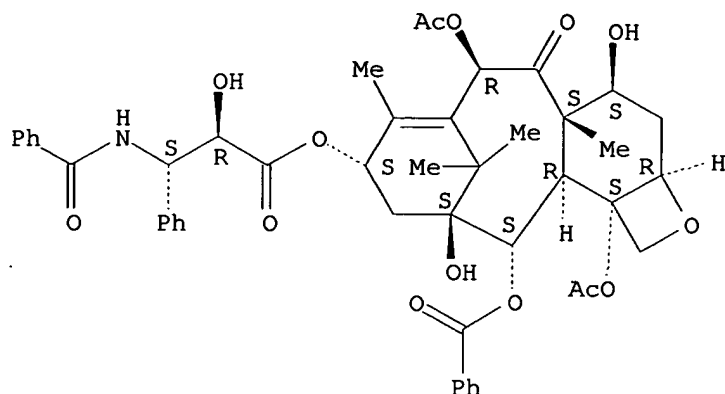
CM 2

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10/758,589

CRN 33069-62-4
CMF C47 H51 N O14

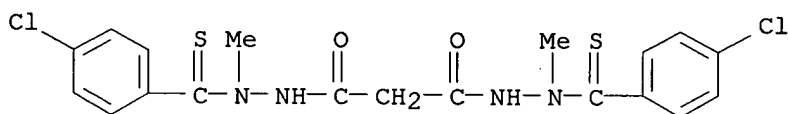
Absolute stereochemistry. Rotation (-).



RN 613261-41-9 HCAPLUS
CN Propanedioic acid, bis[2-[(4-chlorophenyl)thioxomethyl]-2-methylhydrazide], mixt. with (α R, β S)-
(2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-6,12b-bis(acetyloxy)-12-(benzoyloxy)-
2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-4,11-dihydroxy-4a,8,13,13-
tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl
 β -(benzoylamino)- α -hydroxybenzenepropanoate (9CI) (CA INDEX
NAME)

CM 1

CRN 488832-84-4
CMF C19 H18 Cl2 N4 O2 S2

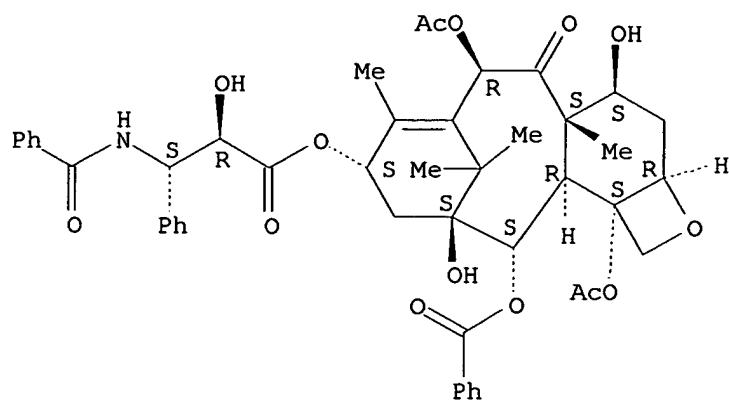


CM 2

CRN 33069-62-4
CMF C47 H51 N O14

Absolute stereochemistry. Rotation (-).

DELACROIX



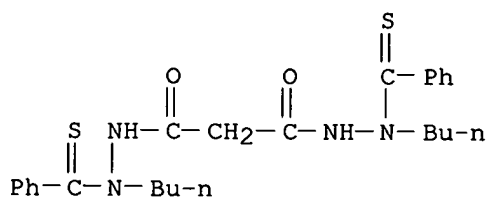
RN 613261-42-0 HCAPLUS

CN Propanedioic acid, bis[2-butyl-2-(phenylthioxomethyl)hydrazide], mixt.
 with (α R, β S)-(2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-6,12b-
 bis(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-
 dodecahydro-4,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-
 cyclodeca[3,4]benz[1,2-b]oxet-9-yl β -(benzoylamino)- α -
 hydroxybenzenepropanoate (9CI) (CA INDEX NAME)

CM 1

CRN 488832-75-3

CMF C25 H32 N4 O2 S2

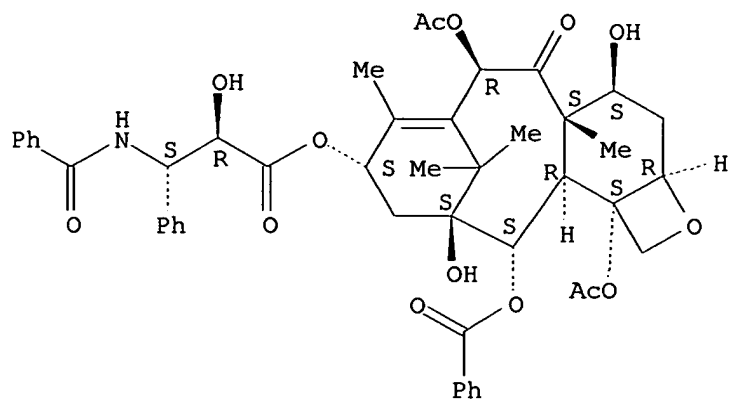


CM 2

CRN 33069-62-4

CMF C47 H51 N O14

Absolute stereochemistry. Rotation (-).



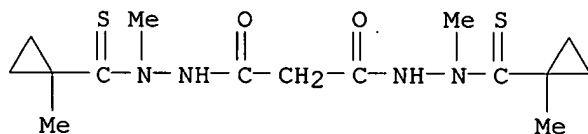
RN 613261-44-2 HCAPLUS

CN Propanedioic acid, bis[2-methyl-2-[(1-methylcyclopropyl)thioxomethyl]hydrazide], mixt. with (α R, β S)-(2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-6,12b-bis(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-4,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl β -(benzoylamino)- α -hydroxybenzenepropanoate (9CI) (CA INDEX NAME)

CM 1

CRN 488831-68-1

CMF C15 H24 N4 O2 S2

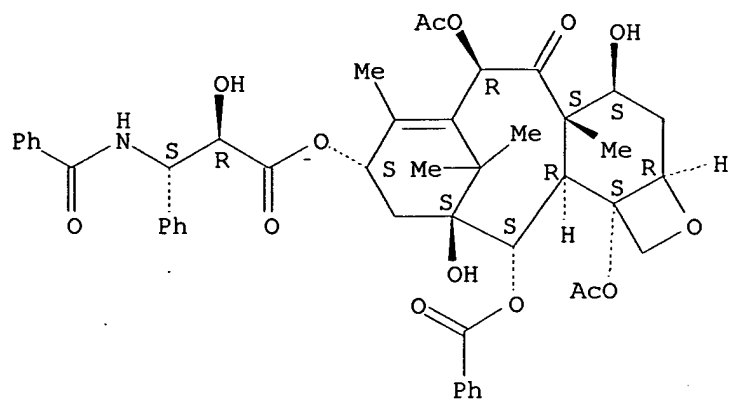


CM 2

CRN 33069-62-4

CMF C47 H51 N O14

Absolute stereochemistry. Rotation (-).



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=> d his

(FILE 'HOME' ENTERED AT 22:12:00 ON 20 OCT 2005)

FILE 'REGISTRY' ENTERED AT 22:12:12 ON 20 OCT 2005

L1 STRUCTURE UPLOADED

L2 4 S L1 SSS SAM

=> s l1 sss full

FULL SEARCH INITIATED 22:14:03 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 8033 TO ITERATE

100.0% PROCESSED 8033 ITERATIONS

75 ANSWERS

SEARCH TIME: 00.00.01

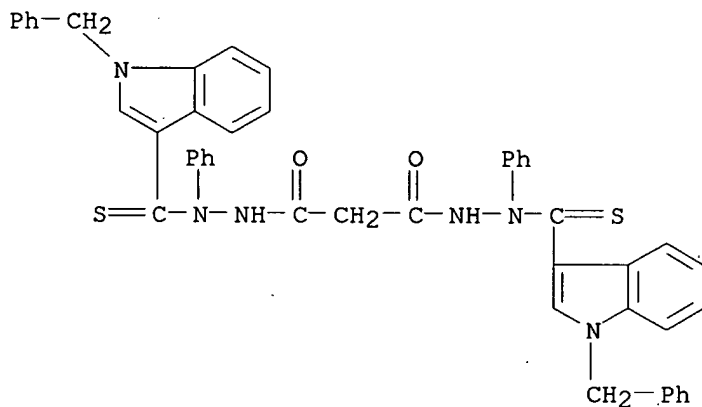
L3 75 SEA SSS FUL L1

=> d scan l3

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN Propanedioic acid, bis[2-phenyl-2-[[1-(phenylmethyl)-1H-indol-3-yl]thioxomethyl]hydrazide] (9CI)

MF C47 H38 N6 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):74

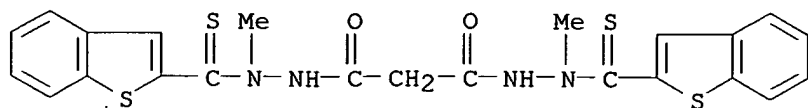
L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN Propanedioic acid, bis[2-(benzo[b]thien-2-ylthioxomethyl)-2-methylhydrazide] (9CI)

MF C23 H20 N4 O2 S4

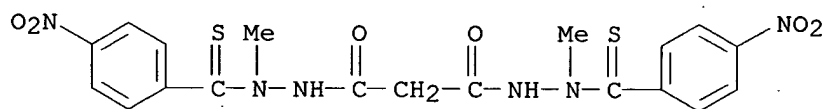
DELACROIX

10/758,589



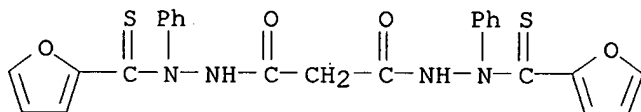
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-methyl-2-[(4-nitrophenyl)thioxomethyl]hydrazide]
(9CI)
MF C19 H18 N6 O6 S2



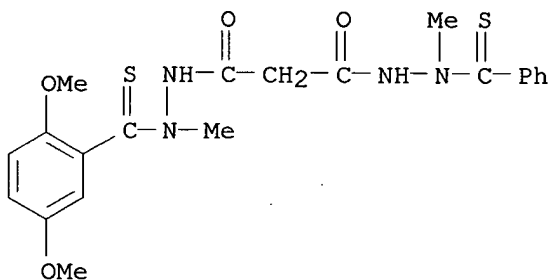
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-(2-furanylthioxomethyl)-2-phenylhydrazide] (9CI)
MF C25 H20 N4 O4 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

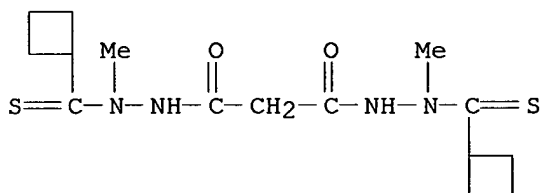
L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, 2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide
2-methyl-2-(phenylthioxomethyl)hydrazide (9CI)
MF C21 H24 N4 O4 S2



DELACROIX

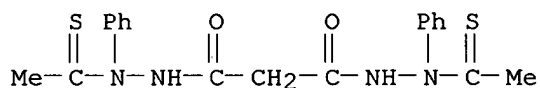
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Propanedioic acid, bis[2-(cyclobutylthioxomethyl)-2-methylhydrazide] (9CI)
 MF C15 H24 N4 O2 S2



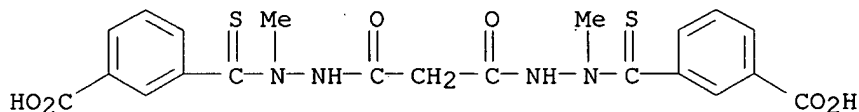
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Propanedioic acid, bis[2-phenyl-2-(1-thioxoethyl)hydrazide] (9CI)
 MF C19 H20 N4 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Propanedioic acid, bis[2-[(3-carboxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI)
 MF C21 H20 N4 O6 S2

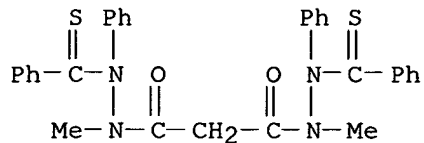


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Propanedioic acid, bis[1-methyl-2-phenyl-2-(phenylthioxomethyl)hydrazide] (9CI)

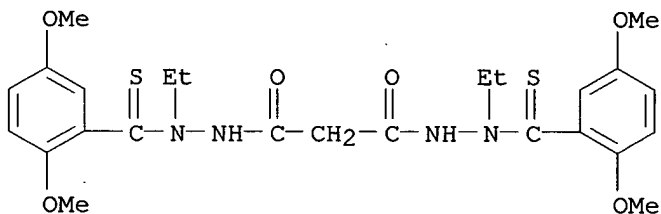
10/758,589

MF C31 H28 N4 O2 S2



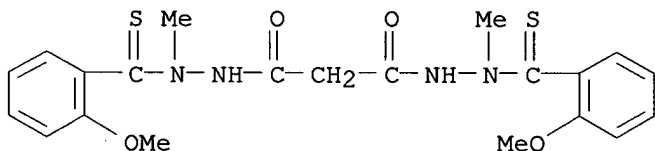
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-ethylhydrazide] (9CI)
MF C25 H32 N4 O6 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[(2-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI)
MF C21 H24 N4 O4 S2

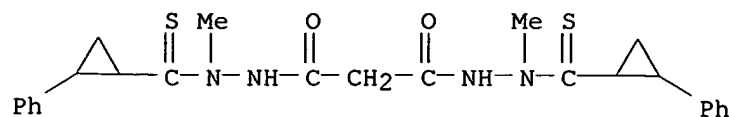


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-methyl-2-[(2-phenylcyclopropyl)thioxomethyl]hydrazide] (9CI)
MF C25 H28 N4 O2 S2

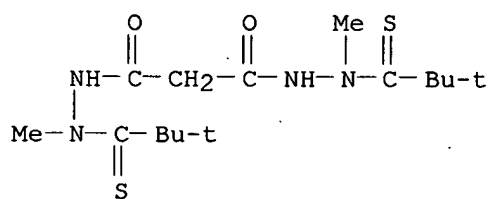
DELACROIX

10/758,589



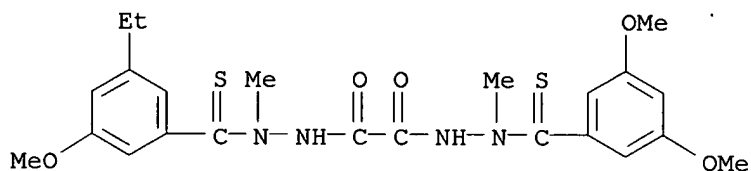
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-(2,2-dimethyl-1-thioxopropyl)-2-methylhydrazide]
(9CI)
MF C15 H28 N4 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Ethanedioic acid, 2-[(3,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide
2-[(3-ethyl-5-methoxyphenyl)thioxomethyl]-2-methylhydrazide (9CI)
MF C23 H28 N4 O5 S2

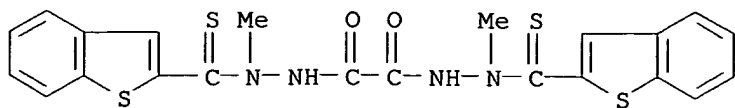


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Ethanedioic acid, bis[2-(benzo[b]thien-2-ylthioxomethyl)-2-methylhydrazide] (9CI)
MF C22 H18 N4 O2 S4

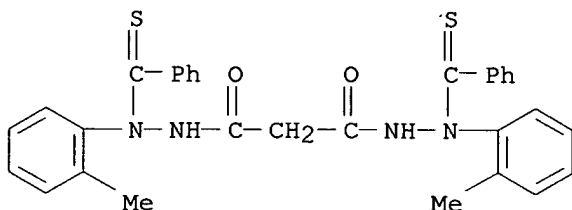
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10/758,589



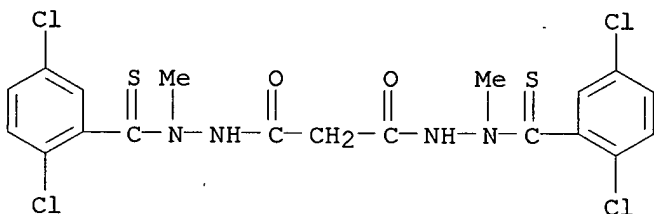
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-(2-methylphenyl)-2-(phenylthioxomethyl)hydrazide]
(9CI)
MF C31 H28 N4 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[(2,5-dichlorophenyl)thioxomethyl]-2-methylhydrazide] (9CI)
MF C19 H16 Cl4 N4 O2 S2

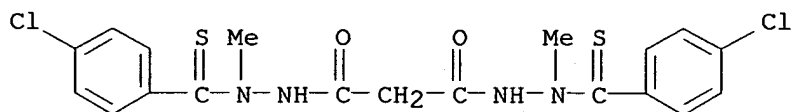


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[(4-chlorophenyl)thioxomethyl]-2-methylhydrazide]
(9CI)
MF C19 H18 Cl2 N4 O2 S2
CI COM

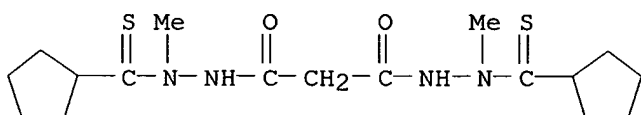
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10/758,589



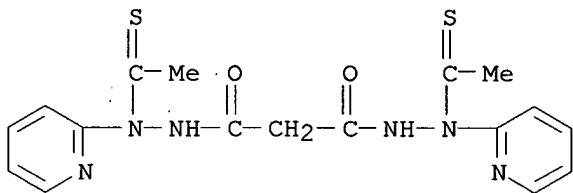
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-(cyclopentylthioxomethyl)-2-methylhydrazide]
(9CI)
MF C17 H28 N4 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-(2-pyridinyl)-2-(1-thioxoethyl)hydrazide] (9CI)
MF C17 H18 N6 O2 S2



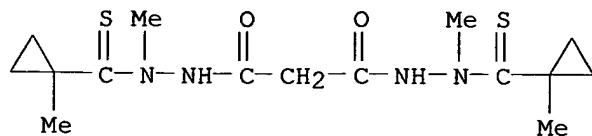
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-methyl-2-[(1-methylcyclopropyl)thioxomethyl]hydrazide], mixt. with (αR,βS)-(2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-6,12b-bis(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-4,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl β-(benzoylamino)-α-hydroxybenzenepropanoate (9CI)
MF C47 H51 N O14 . C15 H24 N4 O2 S2
CI MXS

DELACROIX

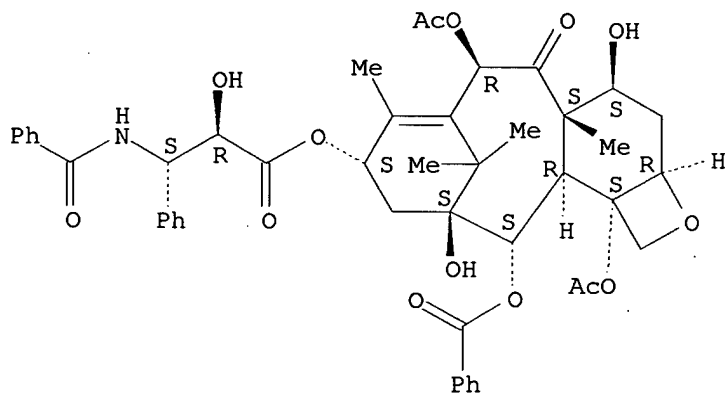
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CM 1

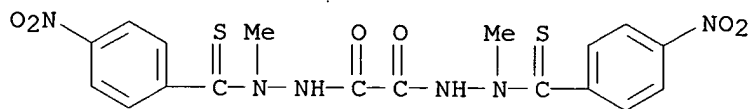


CM 2

Absolute stereochemistry. Rotation (-).



L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Ethanedioic acid, bis[2-methyl-2-[(4-nitrophenyl)thioxomethyl]hydrazide]
(9CI)
MF C18 H16 N6 O6 S2

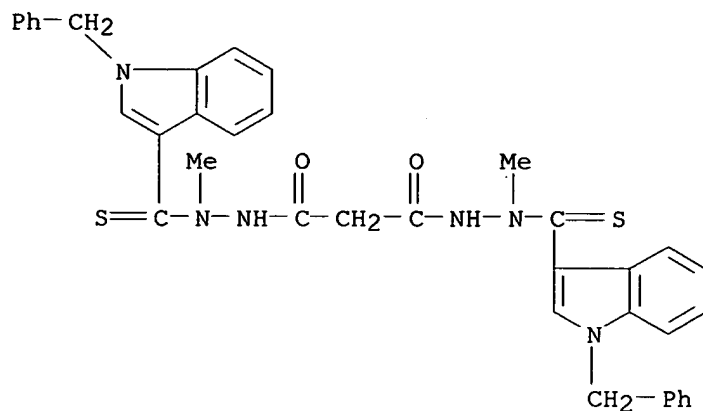


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-methyl-2-[[1-(phenylmethyl)-1H-indol-3-yl]thioxomethyl]hydrazide] (9CI)
MF C37 H34 N6 O2 S2

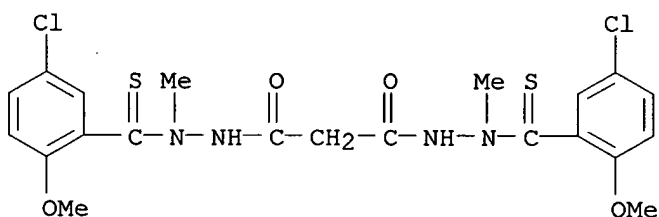
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10/758,589



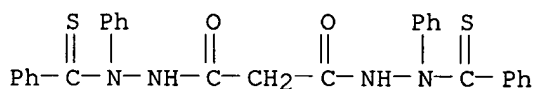
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[(5-chloro-2-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI)
MF C21 H22 Cl2 N4 O4 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-phenyl-2-(phenylthioxomethyl)hydrazide] (9CI)
MF C29 H24 N4 O2 S2



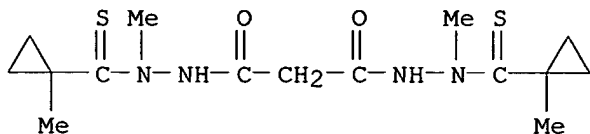
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-methyl-2-[(1-methylcyclopropyl)thioxomethyl]hydrazide] (9CI)
MF C29 H40 N4 O2 S2

DELACROIX

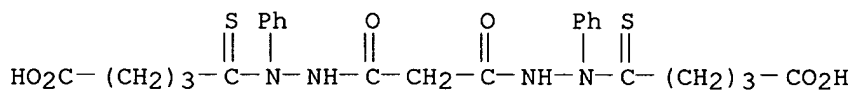
10/758,589

MF C15 H24 N4 O2 S2
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

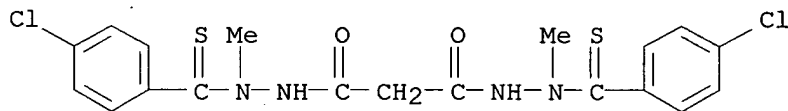
L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-(4-carboxy-1-thioxobutyl)-2-phenylhydrazide]
(9CI)
MF C25 H28 N4 O6 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[(4-chlorophenyl)thioxomethyl]-2-methylhydrazide], mixt. with (αR,βS)-(2αR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-6,12b-bis(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-4,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl β-(benzoylamino)-α-hydroxybenzenepropanoate (9CI)
MF C47 H51 N O14 . C19 H18 Cl2 N4 O2 S2
CI MXS

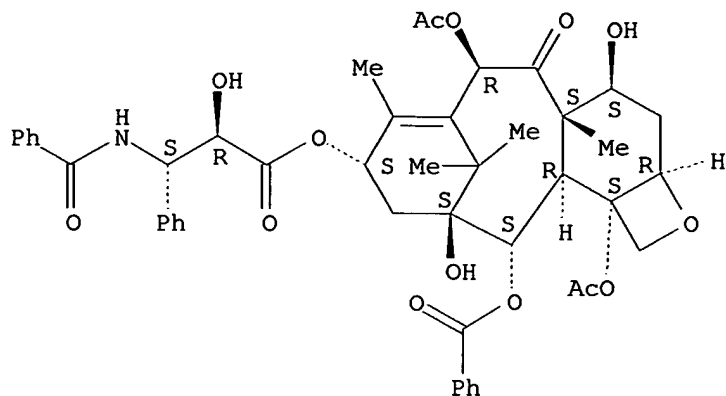
CM 1



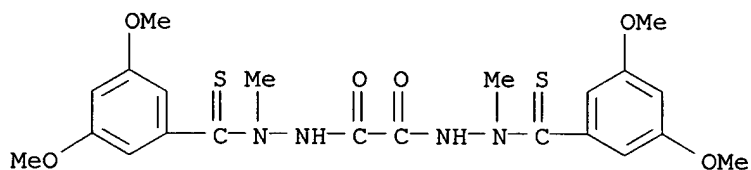
CM 2

Absolute stereochemistry. Rotation (-).

DELACROIX

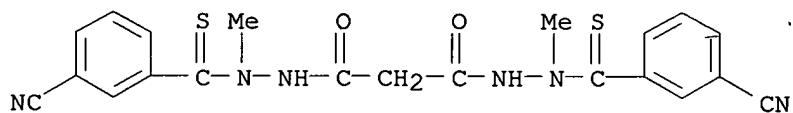


L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Ethanedioic acid, bis[2-[(3,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI)
 MF C22 H26 N4 O6 S2



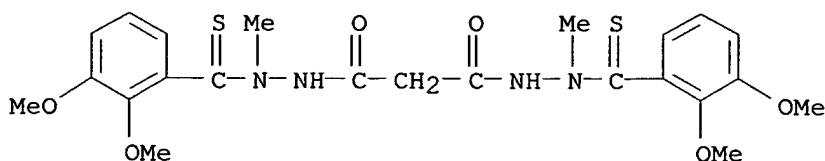
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Propanedioic acid, bis[2-[(3-cyanophenyl)thioxomethyl]-2-methylhydrazide] (9CI)
 MF C21 H18 N6 O2 S2



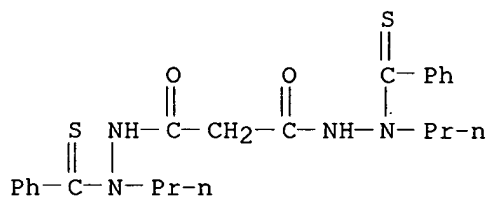
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Propanedioic acid, bis[2-[(2,3-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI)
 MF C23 H28 N4 O6 S2



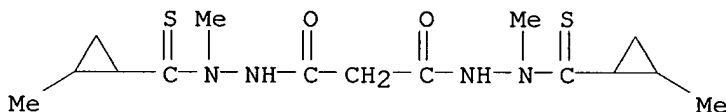
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Propanedioic acid, bis[2-(phenylthioxomethyl)-2-propylhydrazide] (9CI)
 MF C23 H28 N4 O2 S2



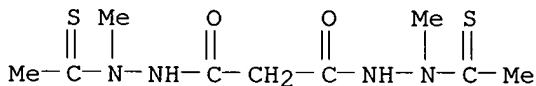
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Propanedioic acid, bis[2-methyl-2-[(2-methylcyclopropyl)thioxomethyl]hydrazide] (9CI)
 MF C15 H24 N4 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Propanedioic acid, bis[2-methyl-2-(1-thioxoethyl)hydrazide] (9CI)
 MF C9 H16 N4 O2 S2

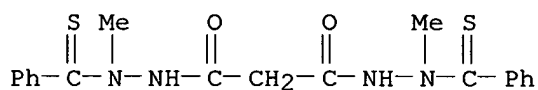


DELACROIX

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

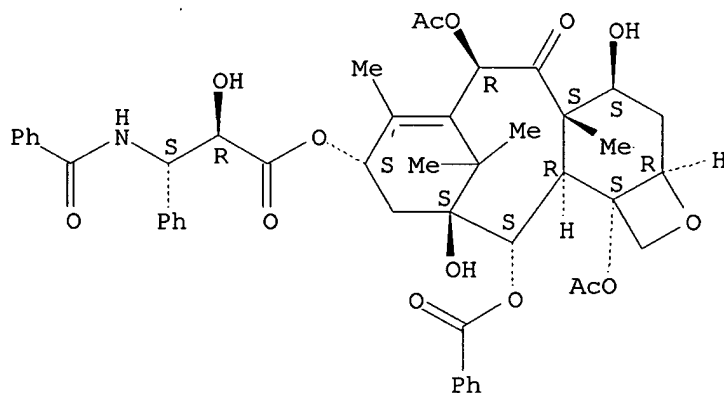
L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Propanedioic acid, bis[2-methyl-2-(phenylthioxomethyl)hydrazide], mixt.
 with (α R, β S)-(2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-6,12b-
 bis(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-
 dodecahydro-4,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-
 cyclodeca[3,4]benz[1,2-b]oxet-9-yl β -(benzoylamino)- α -
 hydroxybenzenepropanoate (9CI)
 MF C47 H51 N O14 . C19 H20 N4 O2 S2
 CI MXS

CM 1

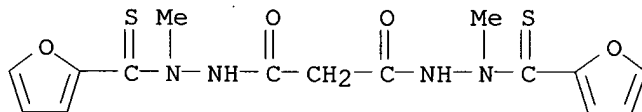


CM 2

Absolute stereochemistry. Rotation (-).



L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Propanedioic acid, bis[2-(2-furanylthioxomethyl)-2-methylhydrazide] (9CI)
 MF C15 H16 N4 O4 S2

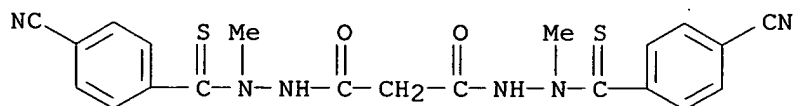


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

DELACROIX

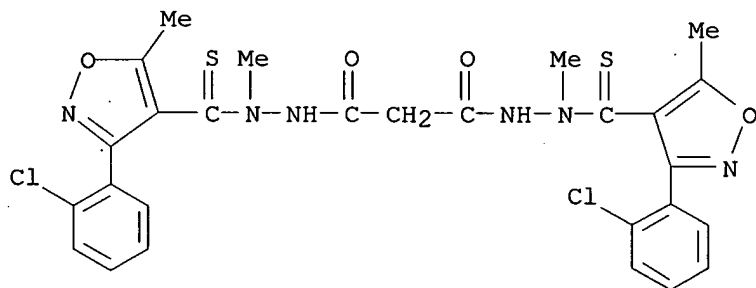
10/758,589

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[(4-cyanophenyl)thioxomethyl]-2-methylhydrazide]
(9CI)
MF C21 H18 N6 O2 S2



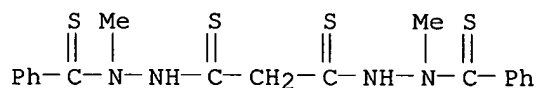
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[[3-(2-chlorophenyl)-5-methyl-4-isoxazolyl]thioxomethyl]-2-methylhydrazide] (9CI)
MF C27 H24 Cl2 N6 O4 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanebis(thioic) acid, bis[2-methyl-2-(phenylthioxomethyl)hydrazide]
(9CI)
MF C19 H20 N4 S4

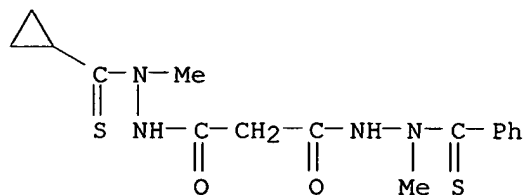


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

DELACROIX

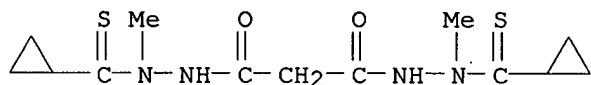
10/758,589

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, 2-(cyclopropylthioxomethyl)-2-methylhydrazide
2-methyl-2-(phenylthioxomethyl)hydrazide (9CI)
MF C16 H20 N4 O2 S2



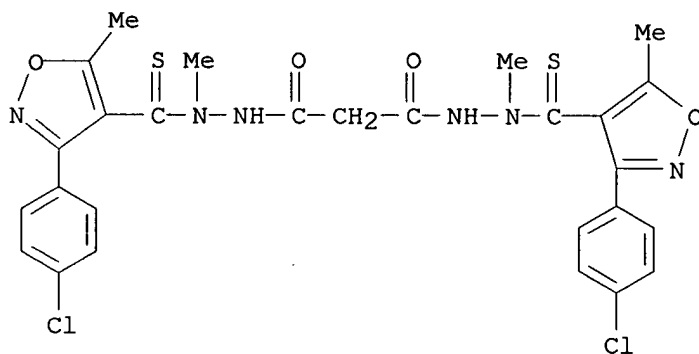
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-(cyclopropylthioxomethyl)-2-methylhydrazide]
(9CI)
MF C13 H20 N4 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[[3-(4-chlorophenyl)-5-methyl-4-isoxazolyl]thioxomethyl]-2-methylhydrazide] (9CI)
MF C27 H24 Cl2 N6 O4 S2

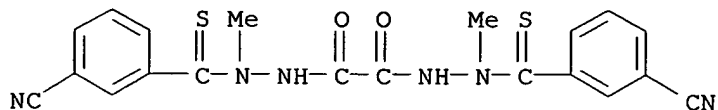


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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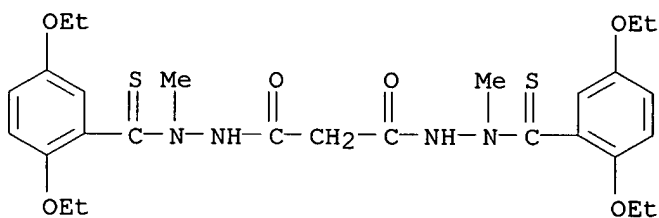
10/758,589

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Ethanedioic acid, bis[2-[(3-cyanophenyl)thioxomethyl]-2-methylhydrazide]
(9CI)
MF C20 H16 N6 O2 S2



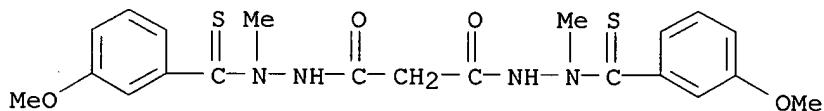
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[(2,5-diethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI)
MF C27 H36 N4 O6 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[(3-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI)
MF C21 H24 N4 O4 S2

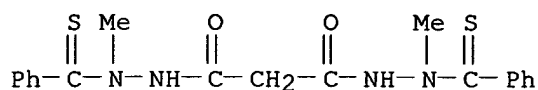


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-methyl-2-(phenylthioxomethyl)hydrazide] (9CI)
MF C19 H20 N4 O2 S2
CI COM

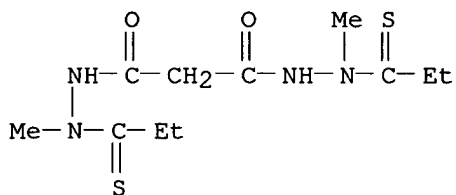
DELACROIX

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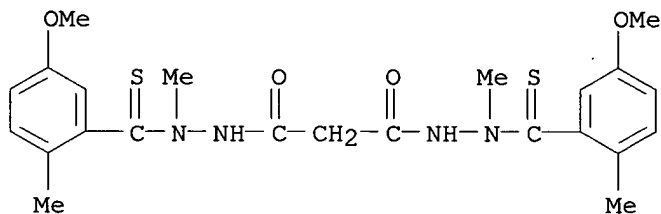
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-methyl-2-(1-thioxopropyl)hydrazide] (9CI)
MF C11 H20 N4 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[(5-methoxy-2-methylphenyl)thioxomethyl]-2-methylhydrazide] (9CI)
MF C23 H28 N4 O4 S2

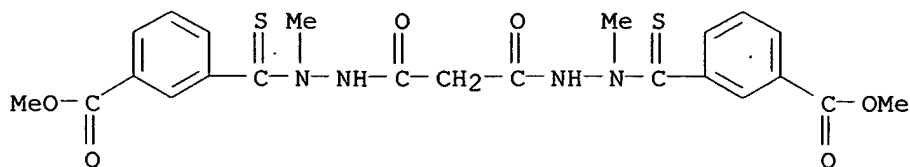


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[[3-(methoxycarbonyl)phenyl]thioxomethyl]-2-methylhydrazide] (9CI)
MF C23 H24 N4 O6 S2

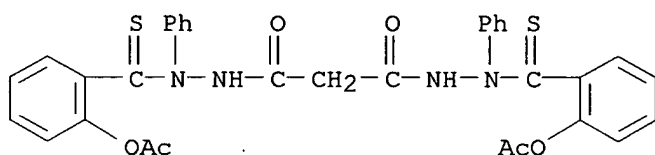
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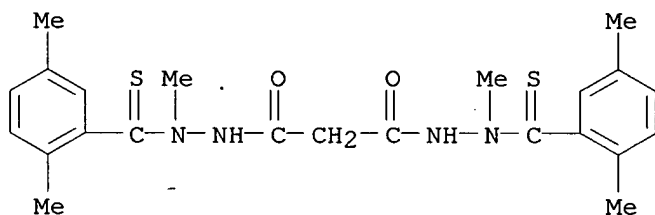
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[[2-(acetyloxy)phenyl]thioxomethyl]-2-phenylhydrazide] (9CI)
MF C33 H28 N4 O6 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[(2,5-dimethylphenyl)thioxomethyl]-2-methylhydrazide] (9CI)
MF C23 H28 N4 O2 S2

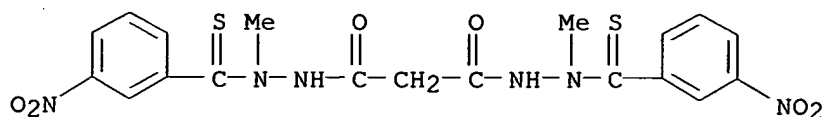


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-methyl-2-[(3-nitrophenyl)thioxomethyl]hydrazide] (9CI)
MF C19 H18 N6 O6 S2

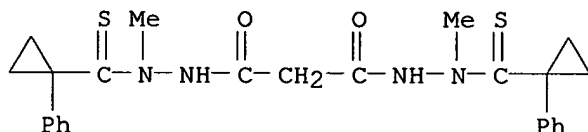
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10/758,589



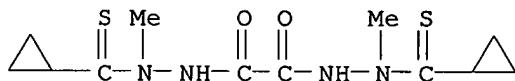
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-methyl-2-[(1-phenylcyclopropyl)thioxomethyl]hydrazide] (9CI)
MF C25 H28 N4 O2 S2



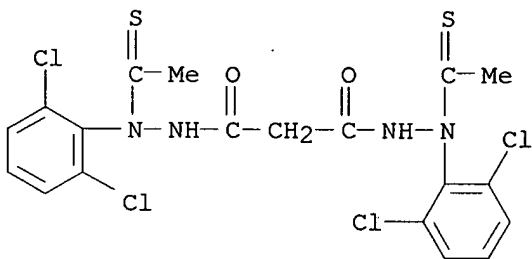
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Ethanedioic acid, bis[2-(cyclopropylthioxomethyl)-2-methylhydrazide] (9CI)
MF C12 H18 N4 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

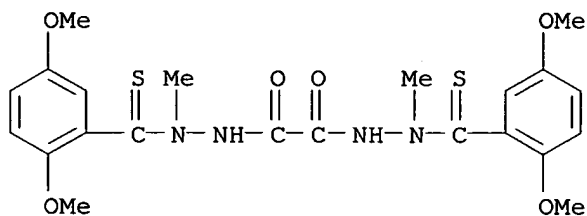
L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-(2,6-dichlorophenyl)-2-(1-thioxoethyl)hydrazide] (9CI)
MF C19 H16 Cl4 N4 O2 S2



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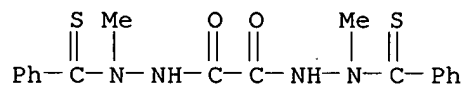
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Ethanedioic acid, bis[2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI)
 MF C22 H26 N4 O6 S2



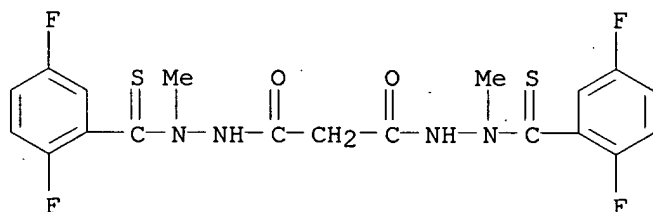
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Ethanedioic acid, bis[2-methyl-2-(phenylthioxomethyl)hydrazide] (9CI)
 MF C18 H18 N4 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

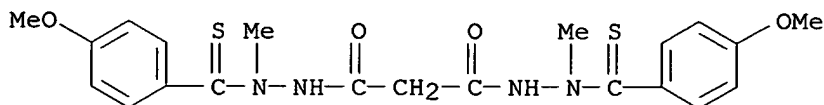
L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Propanedioic acid, bis[2-[(2,5-difluorophenyl)thioxomethyl]-2-methylhydrazide] (9CI)
 MF C19 H16 F4 N4 O2 S2



10/758,589

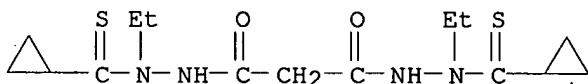
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[(4-methoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI)
MF C21 H24 N4 O4 S2



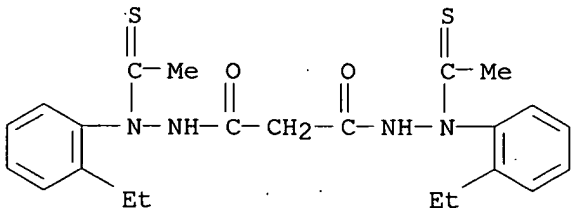
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-(cyclopropylthioxomethyl)-2-ethylhydrazide] (9CI)
MF C15 H24 N4 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-(2-ethylphenyl)-2-(1-thioxoethyl)hydrazide] (9CI)
MF C23 H28 N4 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-butyl-2-(phenylthioxomethyl)hydrazide], mixt. with (αR,βS)-(2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-6,12b-bis(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-4,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl β-(benzoylamino)-α-

DELACROIX

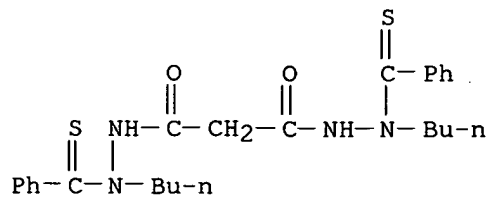
10/758,589

hydroxybenzenepropanoate (9CI)

MF C47 H51 N O14 . C25 H32 N4 O2 S2

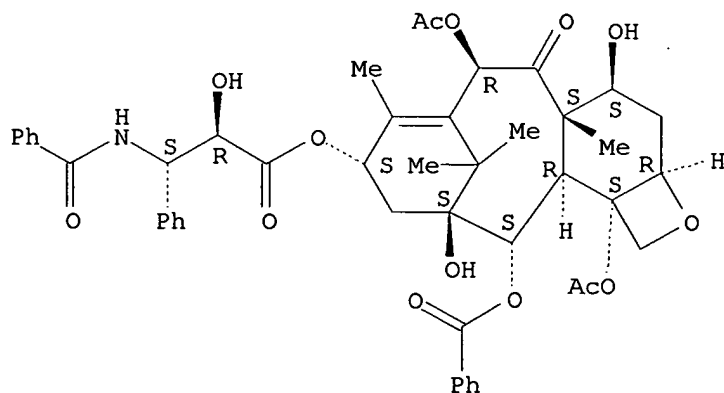
CI MXS

CM 1



CM 2

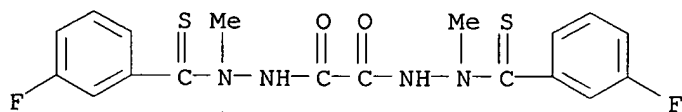
Absolute stereochemistry. Rotation (-).



L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN Ethanedioic acid, bis[2-[(3-fluorophenyl)thioxomethyl]-2-methylhydrazide]
(9CI)

MF C18 H16 F2 N4 O2 S2



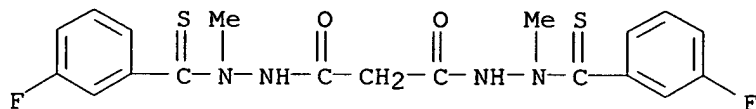
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

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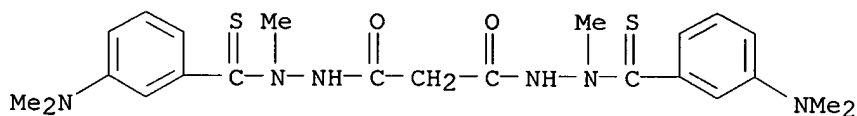
10/758,589

IN Propanedioic acid, bis[2-[(3-fluorophenyl)thioxomethyl]-2-methylhydrazide]
(9CI)
MF C19 H18 F2 N4 O2 S2



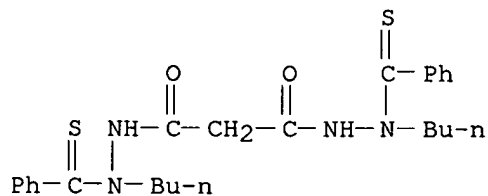
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[[3-(dimethylamino)phenyl]thioxomethyl]-2-methylhydrazide] (9CI)
MF C23 H30 N6 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-butyl-2-(phenylthioxomethyl)hydrazide] (9CI)
MF C25 H32 N4 O2 S2
CI COM

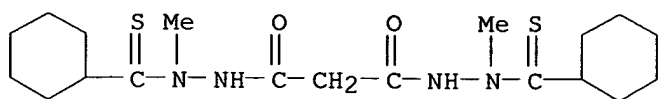


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-(cyclohexylthioxomethyl)-2-methylhydrazide] (9CI)
MF C19 H32 N4 O2 S2

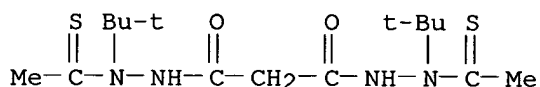
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

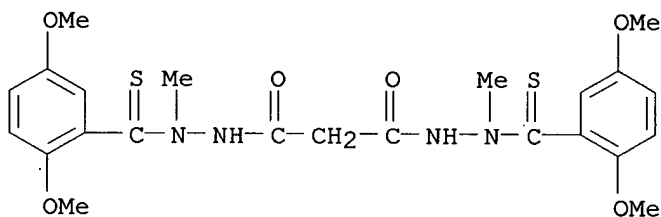
L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-(1,1-dimethylethyl)-2-(1-thioxoethyl)hydrazide]
(9CI)
MF C15 H28 N4 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide], mixt. with (αR,βS)-
(2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-6,12-bis(acetyloxy)-12-(benzoyloxy)-
2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-4,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl
β-(benzoylamino)-α-hydroxybenzenepropanoate (9CI)
MF C47 H51 N O14 . C23 H28 N4 O6 S2
CI MXS

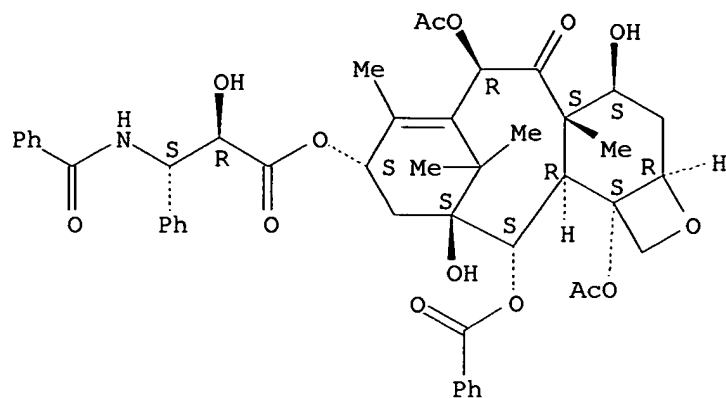
CM 1



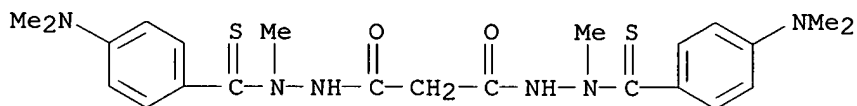
CM 2

Absolute stereochemistry. Rotation (-).

DELACROIX

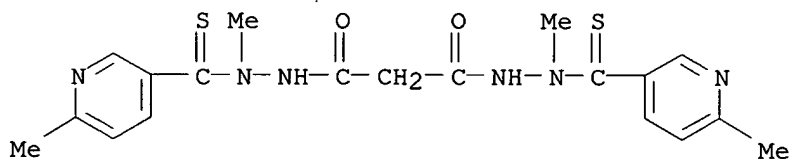


L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Propanedioic acid, bis[2-[[4-(dimethylamino)phenyl]thioxomethyl]-2-methylhydrazide] (9CI)
 MF C23 H30 N6 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Propanedioic acid, bis[2-methyl-2-[(6-methyl-3-pyridinyl)thioxomethyl]hydrazide] (9CI)
 MF C19 H22 N6 O2 S2

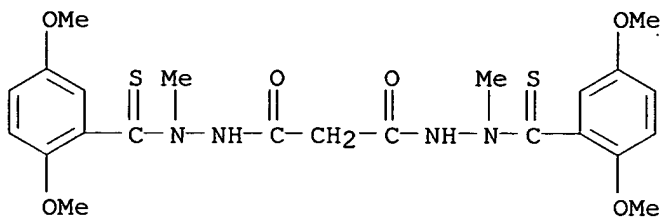


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Propanedioic acid, bis[2-[(2,5-dimethoxyphenyl)thioxomethyl]-2-methylhydrazide] (9CI)
 MF C23 H28 N4 O6 S2

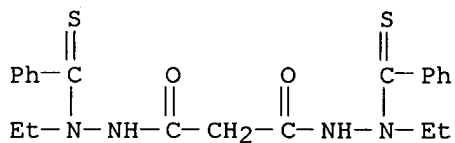
10/758,589

CI COM



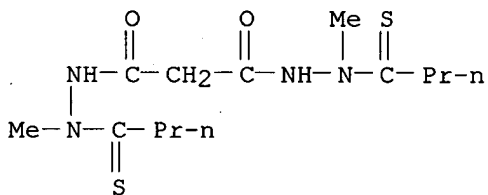
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-ethyl-2-(phenylthioxomethyl)hydrazide] (9CI)
MF C21 H24 N4 O2 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-methyl-2-(1-thioxobutyl)hydrazide] (9CI)
MF C13 H24 N4 O2 S2

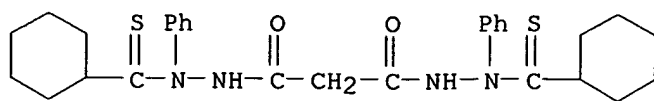


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 75 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, bis[2-(cyclohexylthioxomethyl)-2-phenylhydrazide] (9CI)
MF C29 H36 N4 O2 S2

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

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